

1900

Brick Machinery

B. E. LA DOW,

CHICAGO, ILL.

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1900

B. E. LA DOW

CHICAGO, ILLINOIS, U. S. A.

405 CHAMBER OF COMMERCE.

SPECIALTY: Furnishing Complete Outfits of Machinery and Supplies.

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By the Excellence of Our Goods We Are Known

THE five styles of "Monarch" and two styles of "Iron Quaker" Brick Machines herein shown belong to the so-called "soft-mud" class, making the brick by the "tempered clay" or "sand-molding" process, and produce the best possible "common" brick. There is always a best in everything. Our business is this specialty, and it has had our undivided study for twenty years, to keep our goods at the head of their classes. Proper consideration will convince you that the "Monarch" is the best of the horizontal machines, and the "Iron Quaker" of the upright style.

You will find a list of nearly five hundred users of "Quaker" Machines, and letters from nearly seventy-five users of "Monarch" Machines, from which you can learn the features they consider of value. Many of the letters are written after several years' use. There is no test like that of years of experience.

During the "hard times" in this business the past five years, our lists of sales show that we have far out-stripped all competitors. The value of this to you lies in the fact that never before was there such thorough investigation of the actual working and lasting qualities of machines before placing orders. It was true in every case, and the combined result of so many investigations is a valuable indication that you should not forget.

for common articles are often easily obtained and of little value, but in the case of costly machinery, large and prominent firms could not be induced to give them, wherewith to deceive fellow manufacturers. Their evidence is to be relied on.

One great value in our machinery is that it is "high grade" in mechanical construction. Especial attention is given to perfection in bearings, etc., and other most vital points of a machine, and to-day in the points where wear comes and strain and service are demanded our machines are as perfect mechanically as locomotives or other high-class machinery. No other manufacturer can offer the prospect of their machinery lasting the purchaser for thirty or forty years, with the renewal of simple and minor parts only, but we can do so. Consider the great value of *this* fact.

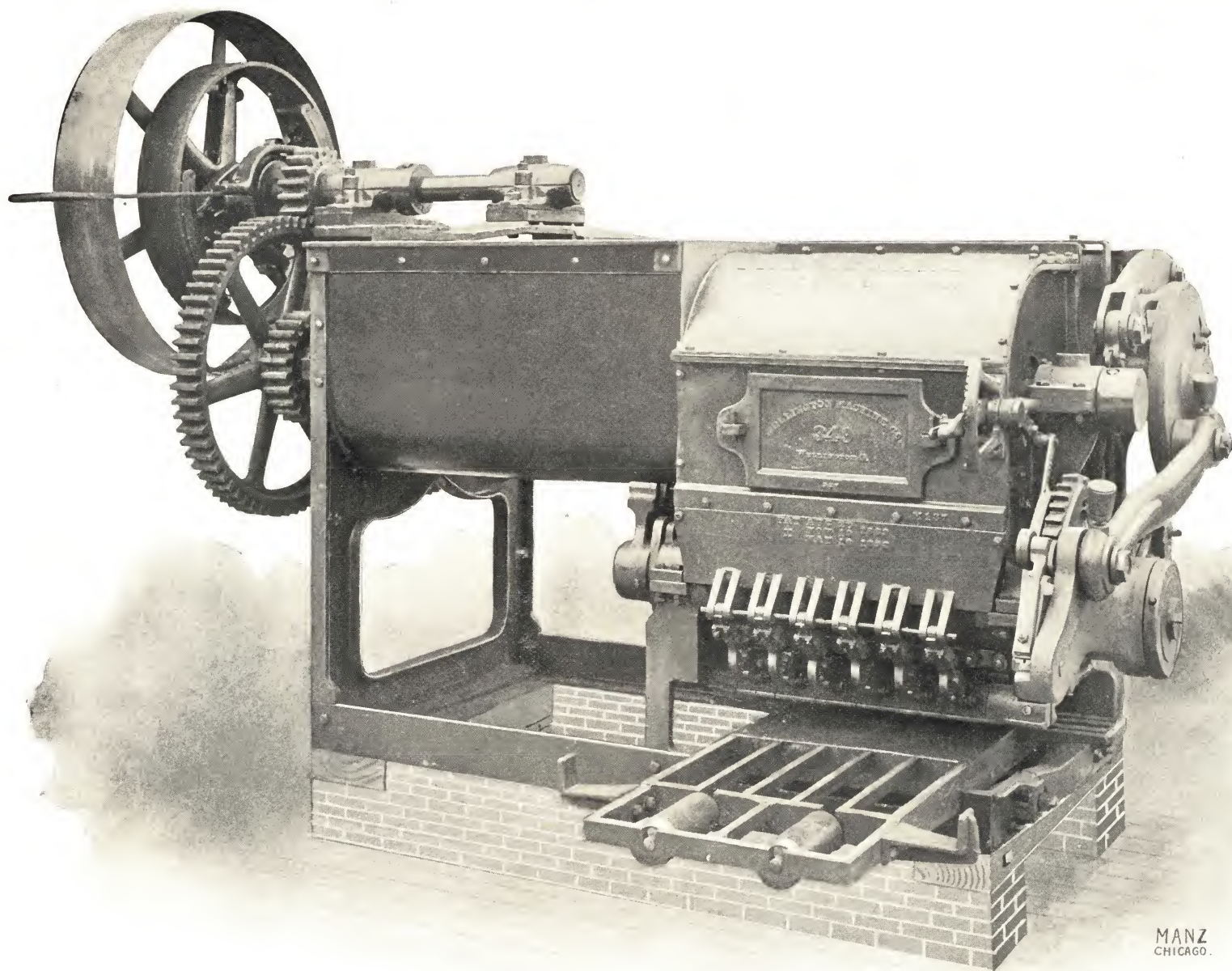
REMEMBER. Buy the Machine that will cost you the least in the future, and then you have found the cheapest one in the end. The cheapest in the start is nearly always the dearest.

January, 1900.

B. E. LADOW

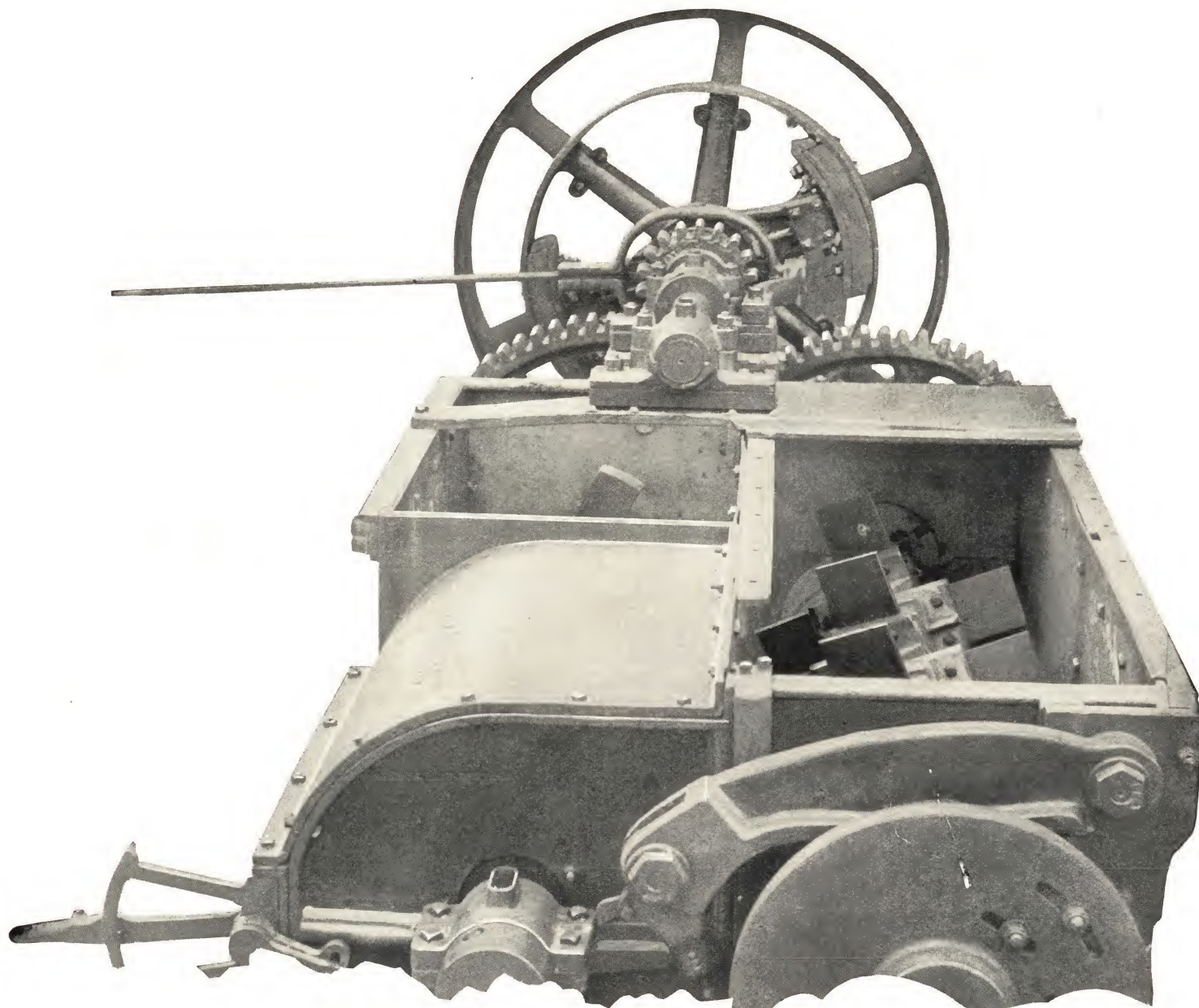
CHICAGO, ILLINOIS,

GUARANTY. We guarantee every article we ship to be **PERFECT.**

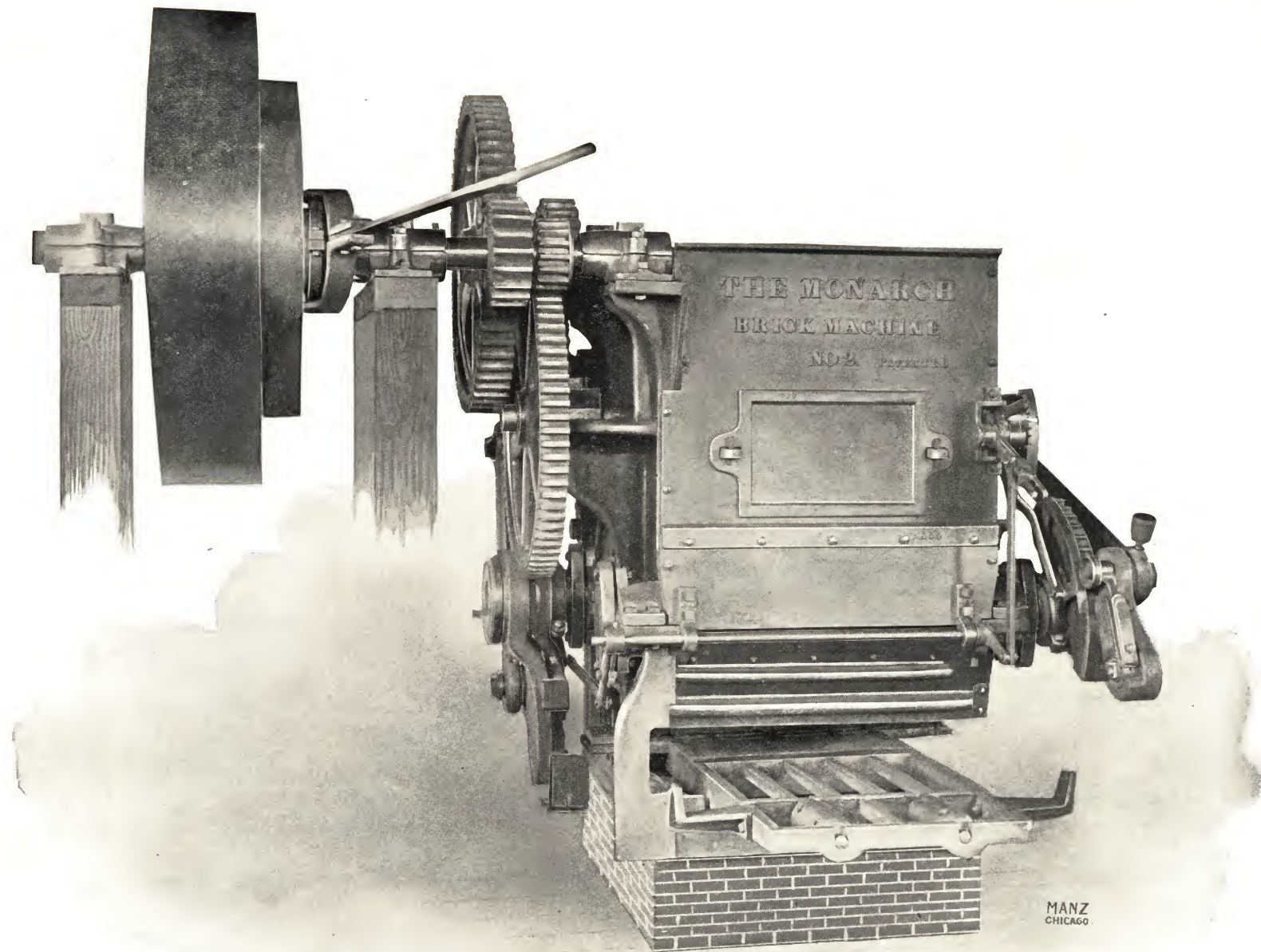


MANZ
CHICAGO.

The No. 1 "Monarch" Brick Machine—Front View. (Weight 11,500 lbs.)



The No. 1 "Monarch" Brick Machine—Top View.



The No. 2 "Monarch" Brick Machine. (Weight 9,000 lbs.)

The No 2 "Monarch" Brick Machine.

This machine was designed for use where the clay is **entirely prepared for molding before reaching the machine**, as is the practice in the manufacture of Fire Brick, etc. It has no pug-mill. We found a demand for such a machine and have built this to meet it. Fire-brick have largely been made by the hand-molding process, no machine yet produced having sufficient pressure to mold stubborn "dead" fire-clay, generally mixed with a liberal proportion of "grog," to the satisfaction of the manufacturers.

MORE PRESSURE—Therefore, in building this machine, each of the pressing wings or blades is made $1\frac{1}{2}$ inches wider, giving 3 inches more pressing surface to the presses. This gives enormous pressure, enabling molding the stiffest and most stubborn materials. It is also used in molding large blocks, such as 10 x 10 inch, 12 x 10 inch, 16 x 8 inch, 20 x 8 inch, etc., etc. The No. 2 "Monarch" can also be used in the manufacture of red or common brick where the material is first prepared in Dry Pans, or Pug-Mills, and where heavy pressure in molding is desired.

The Attention of FIRE BRICK Manufacturers is Particularly Requested to the Nos. 2, 3 and 4 Machines.

Cincinnati, Ohio, Oct. 16, 1899.

Gentlemen: We are very much pleased with the results of our "Monarch" Brick Machine which we purchased from you some months ago, and which has overcome one of our greatest difficulties, i. e., **our brick are now free from sand cracks**. We are using a flint plastic clay, which your machine thoroughly mixes equally as well as a wet pan.

We are pleased to recommend your machine for the manufacture of Fire-Brick.

Yours respectfully,
THE CHAS. TAYLOR'S SONS CO.,
Arthur P. Taylor, Secy.

Cleveland, Ohio, Oct. 16, 1899.

Gentlemen: The No. 3 "Monarch" Machine that we purchased from you for The Minor Fire Brick Works, at Empire, Ohio, is making Fire Brick very successfully. We have very gratifying results from it and can cheerfully say to you that it is a well-made **up to date** machine and **all that you can claim for it**.

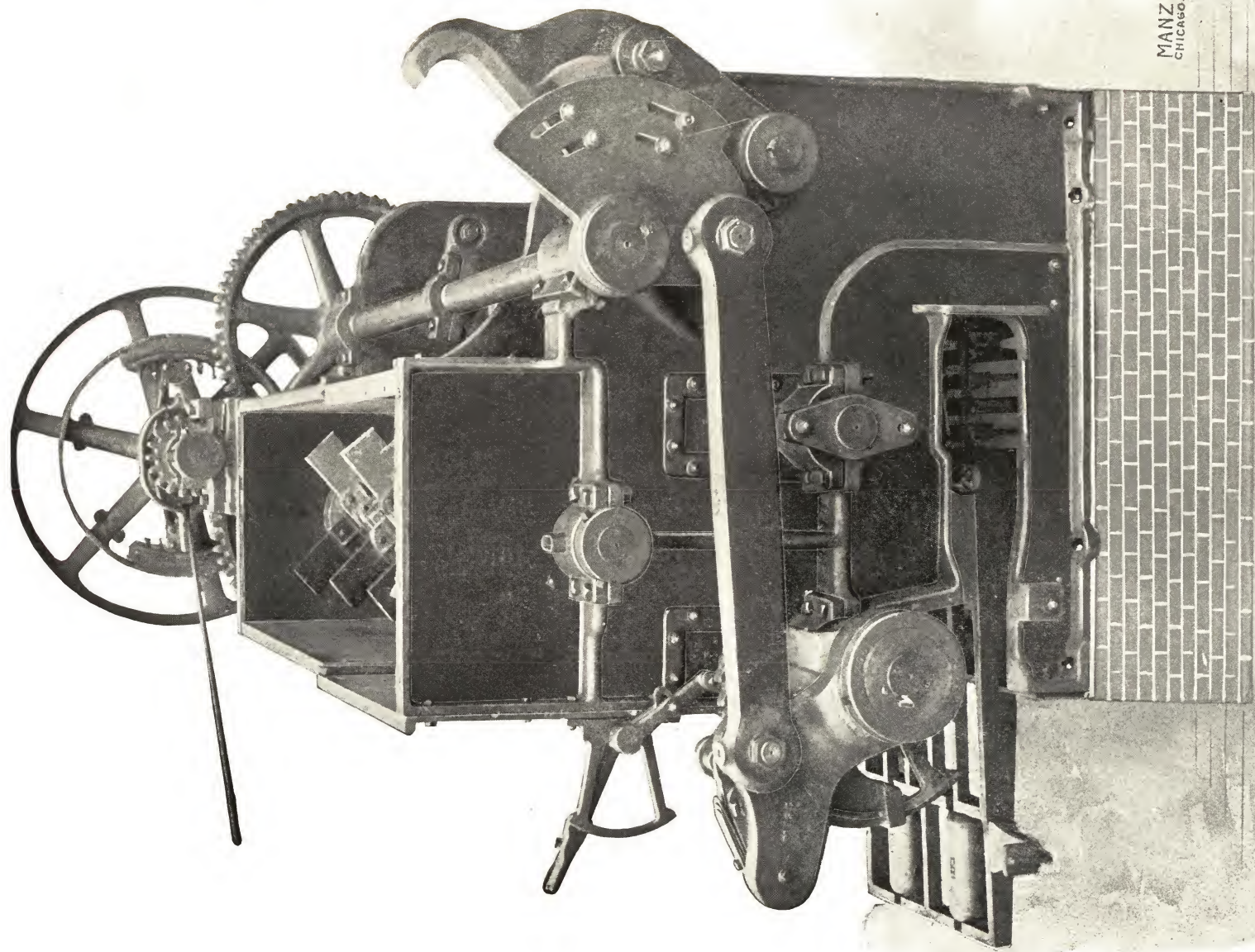
Yours truly,
THE NATIONAL FIRE BRICK CO.
Thos. Kemp, Mgr.

Akron, Ohio, Nov. 12, 1892.

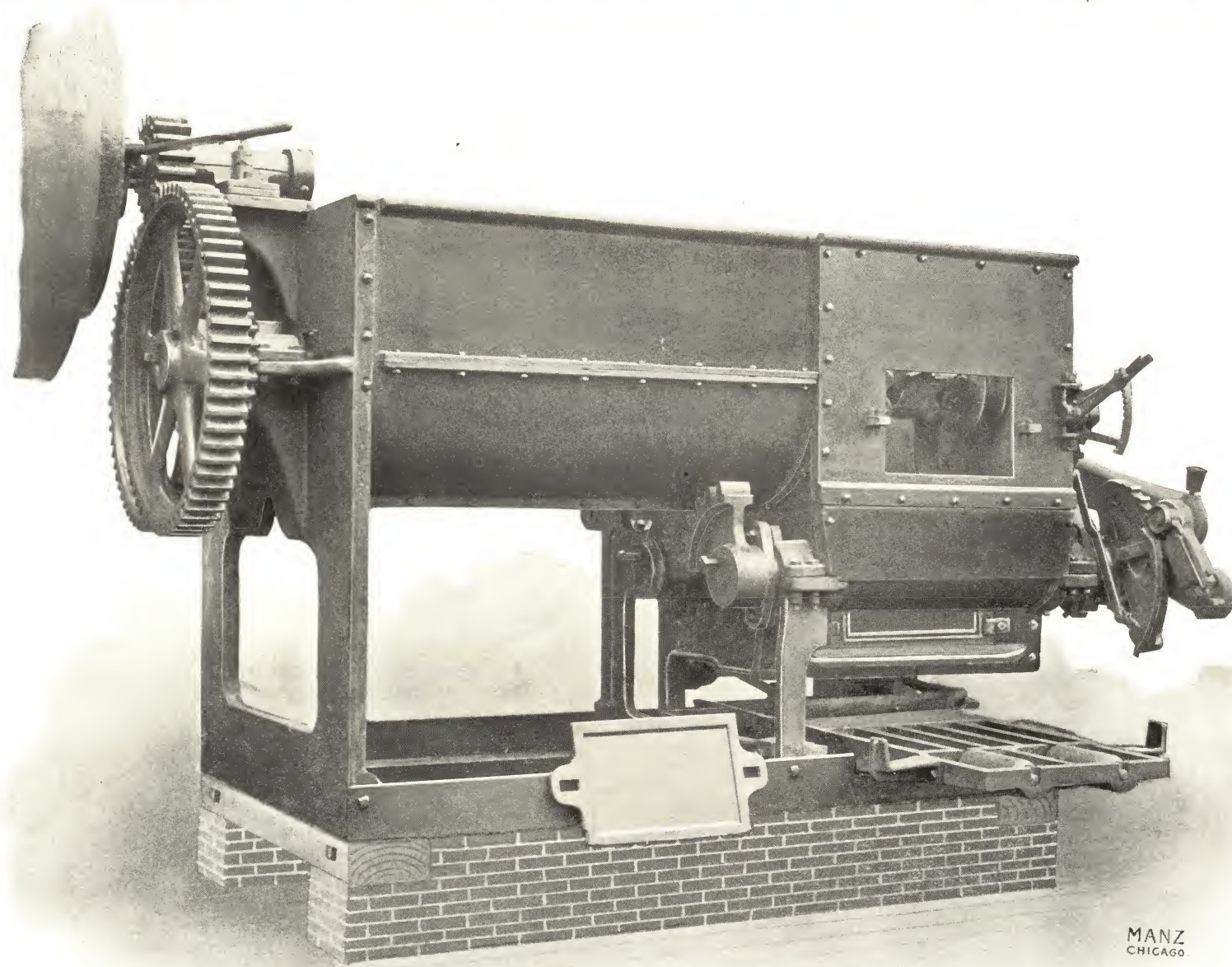
Dear Sirs: You ask me how I like the "Monarch" after another year's use, and I am glad to say that I am still satisfied with it in every respect. I have used other soft-mud machines, and I do not hesitate to call the "Monarch" **the best soft-mud machine** I ever used or ever saw.

I am also using a stiff-mud or wire-cut machine, and in some kinds of clay I like it well, but I cannot use it successfully in all kinds of clay for fire-brick. So I am now using the "Monarch" on plastic clay and the wire-cut on hard clay. The "Monarch" is all right. Sincerely yours,

THE AKRON FIRE BRICK CO.
B. M. Allison, Secretary.



The No. 3 "Monarch" Brick Machine—Top View.



MANZ
CHICAGO

The No. 3 "Monarch" Brick Machine—Front View. (Weight, 11,500 lbs.)

The No. 3 "Monarch" Brick Machine.

The No. 3 "Monarch" Brick Machine, shown on pages 10 and 11, is designed for use where the clay is partially prepared before going to the machine, but still some considerable tempering is required, and in most places where a disintegrator is used it will be found to have sufficient tempering capacity, the pug-mill of the machine being 8 feet in length inside. In many cases the immense tempering capacity of the No. 1 "Monarch" has been found unnecessary and therefore objectionable, where a fairly mild material is first disintegrated, as such do not require nearly the amount of tempering as is the case when the clay is put into the machine without first reducing the lumps, etc.

Heavy Presses and Parts—This machine has the heavier presses the same as described in the No. 2 Machine, and nearly all the working parts are larger and heavier than in the No. 1 Machine. The journals are especially long and heavy.

The No. 4 "Monarch" Brick Machine.

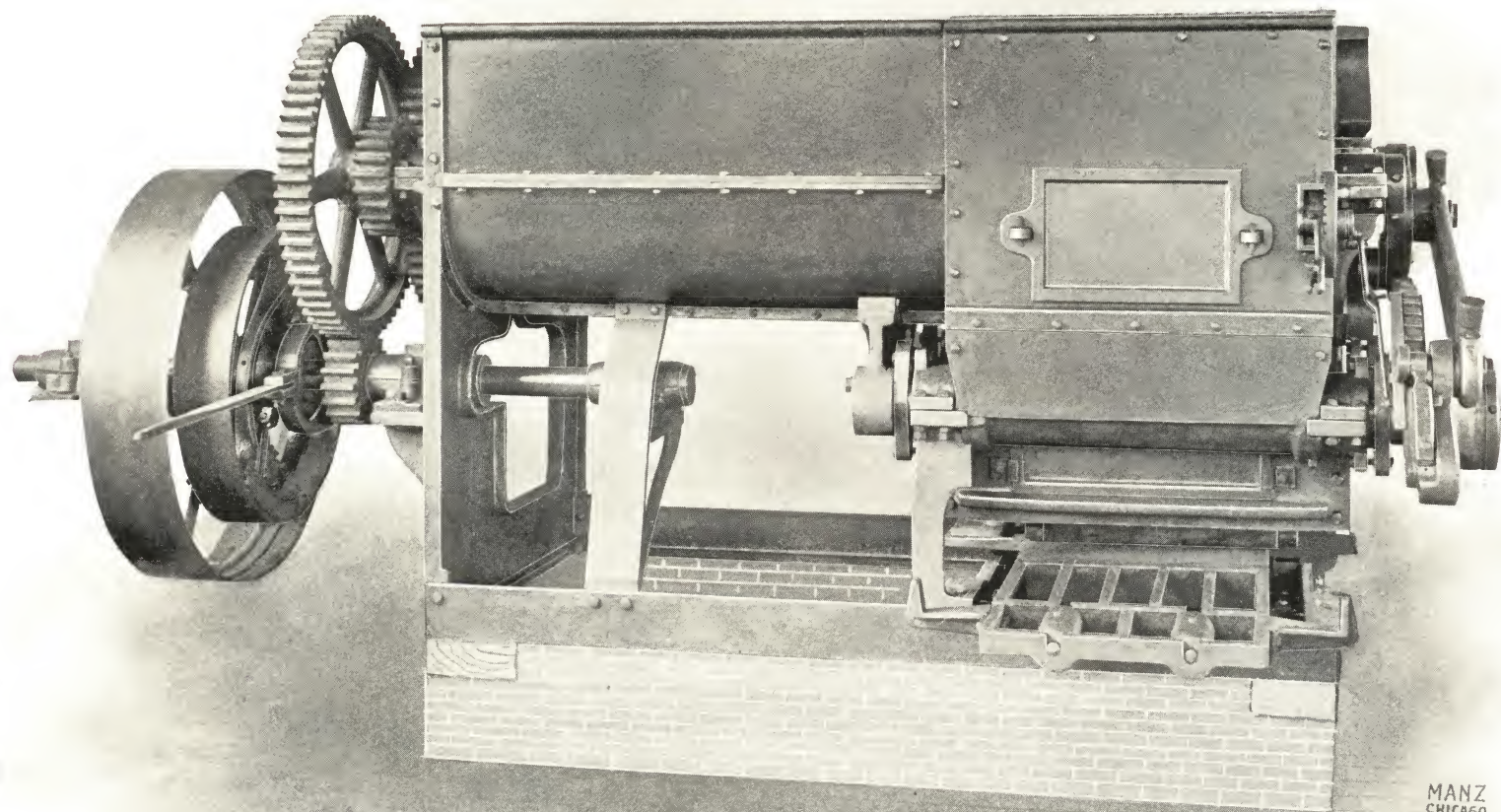
The No. 4 "Monarch" Brick Machine is the same as the No. 3 in all respects except the location of the friction clutch driving pulley, its shaft, etc., which is clearly shown in the engraving on the opposite page.

The selection between the No. 3 and No. 4 machine will depend on local circumstances, according to convenience in belting to the machine. When the local conditions will allow the belt to reach the lower position in the No. 4 machine, it is best to use this style, as the pulley with its clutch, etc., is down low and convenient, and the top of the machine all left clear, the desirability of which will be evident.

The No. 5 "Monarch" Brick Machine.

The No. 5 "Monarch" Brick Machine is the same in all respects as the No. 1, except the location of the friction clutch driving pulley, its shaft, etc., which is placed in the same relative position as they are in the No. 4 machine.

The selection between No. 1 and No. 5 will depend on the same circumstances as above described in selecting between the No. 3 and No. 4.



The No. 4 "Monarch" Brick Machine. (Weight, 11,500 lbs.)

We have not Mentioned many All-important Points,

52d and Market Sts.
Philadelphia, Pa., October 23, 1895.

Gentlemen: Yours of the 21st is at hand in reference to machine purchased from you. I am much pleased with the "Monarch." We have been running since the 8th of July, and we are making 32,000 brick in ten hour's run. We have no regular clay bank, depending mostly on what is hauled in from cellars in the vicinity, consequently **we get all kinds of clay**, but the "Monarch" Machine is capable of making **good brick out of every kind of clay** we have ever come across yet. **The longer we run the machine the better we like it**, and will be pleased to show it to any person wanting a reliable machine always ready to make brick. Yours truly, JOHN SULLIVAN.

(N. B. Mr. Sullivan has removed his yard to Lansdowne, a short distance from Philadelphia.)

2104 Poplar St., Erie, Pa., Nov. 13, 1896.

Dear Sirs: In regard to your inquiry as to how I like the "Monarch" Machine and Sander, I must say that they are giving entire satisfaction. **We have seven brickyards in Erie, and all have different machines, and I have visited them all, but have failed to see any that is able to cope with the "Monarch,"** either in quantity or quality. The Sander is ahead of any that I have ever seen yet.

We have not yet had any repairs on either the "Monarch" or Sander, and wishing you success, I remain,

Yours respectfully,

H. HOGAN.

Morton, Pa., July 4, 1899.

The Wellington Machine Co.—

* * * I have used the "Monarch" Machine three years and never had a breakage, nor lost an hour on account of the machine.

Yours truly, H. I. ACKERMAN.

Shamokin, Pa., Oct. 13, 1896.

Gentlemen: In regard to your "Monarch" Brick Machine purchased in 1893, and being used for **four brick-making seasons**, each season making about 1,600,000 brick, would state that the **machine has been highly satisfactory in every particular**, and in that time has cost very little money for repairs.

We can cheerfully recommend the "Monarch" to any one desiring a machine for the manufacture of soft-mud brick.

Wishing you success, and do not hesitate to refer to us any possible purchasers in this locality, for we will cheerfully show them our machine and give it as good a recommendation as it is possible to give any piece of machinery. Believe us to be

Yours truly, UNION BRICK CO.

By W. C. McConnell.

Greenock, Pa., Oct. 26, 1898.

Dear Sirs: I have been using the "Monarch" Brick Machine since July of the present year, and thus far **it has proven satisfactory in every way**. We can manufacture from 18,000 to 20,000 brick per day, and they are all that can be desired. I am highly pleased with the machine, and will recommend it at all times.

Yours truly, H. PECKMAN.

Harrisburg, Pa., Dec. 31, 1897.

Gentlemen: In reply to yours asking how we like the "Monarch" Brick Machine I would say **after 33 years' experience** with different brick making machines, I am ready to say that I know of no brick machine that will come up to the "Monarch" with the table I put in.

I write this in justice to yourself and as well as my experience for I was the cause of your machine coming to Harrisburg. Yours truly,

J. A. HOCKER.

Foreman Leedy's Brick Works.

Sharon, Pa., November 12, 1896.

Gentlemen: The "Monarch" Brick Machine that I purchased from you one year since has proved very satisfactory. It is the best "soft-mud" machine that I have ever seen. **It will work the clay very stiff** and make more perfect brick than any other.

ISAAC DEFORREST.

Boston, Pa., Oct. 23, 1895.

Gentlemen: After using your "Monarch" Brick Machine six months, we think that without exception it is the best soft-mud machine on the market, and after having used others we find the brick made on the "Monarch" **much better with less breakage and loss in burning**. It makes a good square brick with

fine edges and corners. We can also say that **it will work very stiff clay**. We cannot think of anything that would improve your machine. Wishing you the success that you deserve for such a good machine as this, we remain,

Yours respectfully,

C. M. C. HARPER & CO.

Gettysburg, Pa. Oct. 20, 1896.

Gentlemen: We have now been using the "Monarch" Machine for **five seasons**, and have made about 9,000,000 of brick, and it is good to make many times that many more, with some little repairs of parts that will naturally wear out. We will say to any brick-maker in need of a machine that it will pay him to examine the merits of the "Monarch" before buying any other; that **the simplicity of construction and the grand working of the pug-mill cannot be excelled**, as the top is open and the operator can at all times see the clay and the condition that it is in, and can soon change it from soft to stiff and **it will work the clay as stiff as you want it**.

Yours very respectfully,

F. G. PFEFFER & SON.

Hamburg, Pa., Nov. 19, 1896.

Gentlemen: **After five seasons' use** of the "Monarch" we are confident that our confidence was not misplaced in the least in purchasing it. During this time we have made over 16,000,000 of brick, and this season up to date **we have not lost one hour through any fault of the machine**.

Our machine is just as good practically as it was the day we first started, allowing for natural wear which all machinery is subject to.

All claims which you make for the "Monarch" we unhesitatingly substantiate. To brick-makers who want a machine that will last them a lifetime we say, "Buy a 'Monarch.'"

Yours very respectfully,

TOBIAS BROS. & CO.

Hanover, Pa., Nov. 16, 1896.

Gentlemen: I have been using the "Monarch" Brick Machine for **four years** to my entire satisfaction. It is a first-class machine, superior to any that I have seen. We are making 2,000 brick per hour with a 16 horse-power engine and running a Brewer Crusher with the same power. I can recommend it to any that want a first-class machine.

Yours very truly,

E. H. SNYDER.

as they are Better told below than we could tell them.

Carlisle, Pa., Nov. 20, 1896.

Gentlemen: The "Monarch" Machine I purchased from you in the spring of 1893 still continues to give satisfaction. Being an all iron machine makes it very economical, as there is very little wear and seldom any breakage. I don't think it has cost me \$10.00 for repairs during the four seasons that I have had it in use. We make 20,000 per day, and could make 25,000 if we had demand enough for brick.

Yours respectfully,

A. A. THOMPSON.

Holidaysburg, Pa., Oct. 20, 1896.

Dear Sirs: We have thoroughly tested our Brick Machine, the "Monarch," that we purchased from you in 1893. It has been in operation more or less ever since, especially this season, when we have tested its full capacity in making brick, having made this year alone about 2,000,000 brick.

We are very proud of your machine and willingly recommend a "Monarch" Brick Machine to anyone. It fills the bill in every particular, and we find that every statement that you made in regard to its merit is fully verified by actual work.

Yours very truly,

JOS. HART

Uniontown, Pa., Oct. 16th, 1896.

Gentlemen: I have used your "Monarch" Brick Machine for four years on my brick yards, and take pleasure in saying that I think it is the best now in use. If I were to buy another machine, the "Monarch" would be my first choice. It works any kind of clay, either stiff or soft, and always makes a perfect brick. **No breaking or repairing except that occasioned by carelessness or accident.** I will gladly show my machine to any person you may send here while it is in operation, and will take pleasure in highly recommending it.

Very truly yours,

JOHN N. BROWNFIELD.

OHIO.

Martin's Ferry, O., Oct. 17, 1896.

Gentlemen: In reply to your inquiry as to the condition of the "Monarch" after four seasons' use, we are pleased to say that it is in good shape, and would not exchange it for any other new machine that we know of.

It has cost us less for repairs for the entire four seasons than we have paid on other machines in one year working the same clay, under the same or rather more favorable conditions. We do not see any reason why the "Monarch" with fair treatment and ordinary repairs, should not be a **good machine after producing fifty millions good brick.** Wishing you abundant success, we remain. Yours truly,

THE BELMONT BRICK AND TILE CO.

Per C. H. Carpenter, Pres. and Mgr.

Toledo, Ohio, Oct. 26, 1896.

Gentlemen: In reply to yours as to how I like the "Monarch," I am well pleased with it, and think that it is all you claim for it. This is the close of the **fourth season** that I have used it, and **it runs as well as ever.** The breakages have been very small and were caused by large stones getting between the knives.

It affords me pleasure to recommend the "Monarch" to anyone that wants a good, substantial soft-mud machine.

Yours truly,

FRANK E. TRACY.

Eaton, Ohio, Oct. 15, 1896.

Gentlemen: Yours of the 12th is at hand, in which you ask our opinion of the "Monarch" Brick Machine which we have used for **three seasons.** It is **THE** machine. We cannot enter **ANY** complaint, for we have tried it in every manner, from 15,000 a day up to its full capacity, and find that it will do its work well at any speed and without loss of time, and we recommend it.

Wishing you the best of success, we are, yours truly,

THE EATON BRICK CO.

Toledo, Ohio, October 16, 1896.

Dear Sirs: The Monroe Street Brick Yard purchased a "Monarch" Machine in 1892 from your Company. This machine has been in use for **five seasons**, and has rendered most excellent service. **It is light running, strong, efficient and subject to but little wear.** We are satisfied that it is one of the best machines on the market. Were we to purchase another machine the "Monarch" we would buy.

Respectfully yours,

A. E. MACOMBER, Propr.

Painesville, Ohio, Nov. 19, 1896.

Gentlemen: In reply to yours asking how we like the "Monarch" after using it for **five seasons**, we highly recommend the machine as being the best we ever used. It makes good, even brick, and runs much easier than the "Quaker" and pug-mill did.

Yours respectfully,

THOMPSON BROS.

Ashtabula, Ohio, Oct. 13, 1896.

Gentlemen: We have used the "Monarch" Brick Machine for **four years**, and can say that if a brick-maker don't make good brick with this machine that something else than the machine is at fault.

The breakage and wear are less than with any other machine that I know of. The capacity of the machine is **more than the gang can take care of.** We would be glad to correspond with anyone that is thinking of buying a machine or to show them our machine.

We are, yours truly,

ED. REID & SON.

Mansfield, Ohio, Nov. 20, 1896.

Gentlemen: In regard to your "Monarch" Machine would say that we have used the same for **four seasons** and have expended a great deal of time and money in looking up machines of various makes, but today have fully decided that there is not a machine on the market that would suit us as well. Therefore we cordially recommend it to all in need of a brick machine, and solicit any correspondence for further particulars.

Yours very truly,

OHIO BRICK & TILE CO.

Per F. H. Wise, Mgr.

Sandusky, Ohio, Dec. 28, 1894.

Gentlemen: The "Monarch" Brick Machine you sent me last spring makes excellent brick. Brick-layers say they are the best building brick they ever saw. With its new principle of pressing, I consider it the best soft-mud machine on the market. **It molds very stiff clay** which stands up well on the pallets.

Very truly yours,

D. B. CHAMBERS.

You will not Appreciate the Result of

Napoleon, Ohio, Nov. 16, 1896.

Dear Sirs: Your "Monarch" Brick Machine is undoubtedly one of the greatest machines made. Our brickmaking season is over for this year, and I **have not paid out one cent for repairs.** Breakage and leakage make quite an item in a brick-maker's account in a season. I know that it did in mine until I purchased a "Monarch" and all that annoyance and expense ceased at once. I was able to make better brick, and about 2,000 more of them per day with the same number of men, because every morning at 7 o'clock the machine was ready for business for ten hours.

Hoping that you will be able to convince every brickmaker that contemplates buying a new machine to buy a "Monarch," and I for one among the many that are using your machine will know that he has made no mistake.

Yours respectfully,

L. G. FELLERS.

Swanton, Ohio, Oct. 23, 1895.

Gentlemen: We have been using one of your "Monarch" Brick Machines for the past season and are entirely satisfied with it; in fact, we think from what we have seen that we have **the best stock brick machine** we have ever seen. Do not see how it could be improved.

Yours truly,

PILLIOD LUMBER CO.

WISCONSIN.

Menominee, Wis., October 22, 1896.

Gentlemen: We have now used the "Monarch" Brick Machine for **four seasons**, making an average of about 5,000,000 each season, and I believe **we have not sent back to you for any repairs** since we purchased the machine. The strength and durability of the "Monarch" is indeed very satisfactory, and to this you may add my testimony of 1893.

Respectfully yours,

S. L. ALEXANDER.

Supt. Wisconsin Red Pressed Brick Co.

(Mr. Alexander has just purchased another "Monarch" for his new plant at Grand Rapids, Wisconsin.)

Grand Rapids, Wis., Nov. 7, 1898.

Gentlemen: After using the "Monarch" Machine for six years, I am still of the opinion that it is the best soft-mud machine on the market, easily regulated, light running and free from breakage. Wishing you abundant success, we remain,

Yours very truly,

GRAND RAPIDS PRESSED BRICK CO.

Manitowoc, Wis., Oct. 13, 1899.

Gentlemen: The "Monarch" Brick Machine purchased of you the early part of this year has fully met our expectations. We think that the **"Wellington" Sander is as exact as a trained soldier.** The Disintegrator disintegrates our clay very nicely.

Yours very cheerfully,

THE MANITOWOC CLAY CO..

F. E. Dickinson, Proprietor.

Oshkosh, Wis., Oct. 24, 1894.

Gentlemen: We have been running the "Monarch" Machine which we got of you since the 1st of April, making 32,000 brick per day with the best of satisfaction—brick all being good No. 1 brick and the machine not looking any the worse for wear.

Yours truly,

THE COOK & BROWN LIME CO.

Stevens Point and Medford, Wis., Nov. 1, 1898.

Gentlemen: In reply to yours of a recent date, will say that the "Monarch" Brick Machine which we purchased of you last spring is **all that you claim for it.** It is a well built machine being strong and very durable. The brick that it turns out are nice and smooth, and they have very sharp corners. We make from 25,000 to 35,000 per day on it, and could make more if the men could handle them faster.

Wishing you success, we are,

Yours respectfully,

LANGENBERG BRICK CO.

New London, Wis., Nov. 2, 1899.

Dear Sirs: The "Monarch" Machine which I bought of you this spring is a dandy. **It is a good pugger and a light running machine,** as I have a 20 horse-power engine which I know would run two machines like this at the rate of 2500 per hour and do

it easy. I did not make many brick this season on account of wet weather in the spring, but what I made went like hot cakes, as I have them all sold and could have sold 500,000 more if I had them. The "Monarch" makes brick that are perfect.

Yours respectfully,

AUGUST PRAHL.

Madison, Wis., Nov. 27, 1897.

Gentlemen: At the close of a highly successful brickmaking season, during which I made more brick than in any previous one, it may not be out of place to tell you that I attribute a great part of this success to the "Monarch" which I bought from you a year ago. I commenced making bricks with it on the first of May, and worked right along **without any stoppage, making 32,000 brick per day, without its costing one cent for repairs.**

I consider it a splendid machine, am thoroughly well pleased with it and can heartily recommend it to the brick-making public.

Wishing you all manner of success and a boom in your trade for 1898, I am,

Very truly yours,

DAVID STEPHENS.

Plattsville, Wis., Nov. 25, 1897.

Gentlemen: For the past season I have been operating one of your "Monarch" machines at my plant and desire to say that it has given the best possible satisfaction. My clay is rather **hard to work, being extremely sticky,** but in the face of this I have no trouble whatever in turning out 25,000 good brick every day. **The sander used in connection with this machine is a very necessary feature;** in fact I could not get along without it. It might interest you also to know that the power used to drive this machinery is furnished by a 25 horse-power gasoline engine which I find economical and very convenient.

Believe me to ever stand ready to say a good word for the "Monarch" and remain,

Respectfully yours,

JNO. GRINDELL.

Years of Steady Use unless you Read Them.

Kenosha, Wis., Oct. 18, 1898.

Gentlemen: In reply to your favor of Oct. 15, will say that I am perfectly satisfied with the "Monarch;" also with the Sander and Disintegrator. I did not have over one-half season's work this year, but the machine did its work to my entire satisfaction. I can cheerfully and honestly recommend it to anyone wanting a soft-mud machine.

Respectfully yours,

W. J. CRANEY.

IOWA.

Dubuque, Iowa, Oct. 18, 1898.

Gentlemen: This is to certify that before purchasing your "Monarch" Machine I had visited several brick manufacturing points with a view to obtaining information as to the best brick machines in use. The result of my investigation was the selection of your machine, which I put into service the opening of this season with the most satisfactory results. During the brief season of four months we produced 2,000,000 brick by the pallet system, superior to that of any other make in this section of the country.

After an experience of twelve years with other machines, I cheerfully testify that **none are comparable to yours for durability and general excellence.**

Truly yours,

JOHN HEIM.

Council Bluffs, Iowa, Oct. 20, 1896.

Gentlemen: We have used the "Monarch" Brick Machine the past **five years** with the best of satisfaction, and we take pleasure in recommending it to anyone contemplating the purchase of a brick machine.

We have given our machine a severe test, and if we were going to buy another to-day we know of no other soft-mud machine that we would prefer to the "Monarch."

It will make brick as good and as rapidly as any in the market. We have made as high as **6,000 brick per hour**—all good square brick.

In regard to repairs for the "Monarch"—with good care **they will not amount to one per cent. of the cost of the machine per year.**

With best wishes for your success, we are,

Yours truly, WICKHAM BROS.

Central City, Iowa, Nov. 16, 1896.

Gentlemen: Yours asking what I can say in regard to the "Monarch" Brick Machine purchased of you **four years ago**, is at hand.

It is all right. **I have not been to any bother or expense since.** It will make all the brick that can be taken away from it, and outside of the natural wear of the cogs and tempering blades it is just as good as when I bought it.

The press part is perfection and will last a lifetime.

Any one needing a machine makes a mistake if they fail to investigate the "Monarch" before purchasing.

My dealings with the Wellington Machine Co. have been very satisfactory in every way.

Yours respectfully,

A. L. HATCH.

Clarinda, Iowa, July 15, 1893.

Dear Sirs: With the "Monarch" Brick Machine I make 24,000 good square brick per day of 8½ to 9 hours with ease. From May 15 to July 8, (eight week's run) I only lost 3½ days by rain, making an average of 24,000 every day, without a break or skip of any kind.

My hands all like the "Monarch" Machine as well as I do, as they don't get pay for a day until they get out 24,000 brick; and they know they will get out in good season, as they don't have to stop and fix or repair something every hour or so. **It is a good strong machine in every way.** I have used other soft-mud machines, but could never fill out all the corners; but with the "Monarch" I have made brick all day long with good stiff mud without making a "Mulley" brick, as the presses come down on each end of the mold with the same amount of mud and pressure on each end of the mold, filling all corners alike. There is no leakage whatever in the machine any place.

I mold the mud very stiff and truck on pallets to drying sheds. The "Monarch" will pug the dirt very dry or wet, as it comes from the bank, and make good brick either way. I have made brick for 23 years on other soft-mud machines and by hand, but have never run a machine that worked as smooth and with such satisfaction as the "Monarch" gives. **It is a machine that will last a lifetime**, as everything is made good and strong.

You are at liberty to send any one here when it is in

operation at any time. It pleases me in every respect. Wishing you good success, I am.

Yours truly, J. M. CRAB'LL.

MISSOURI.

Boonville, Mo., Sept. 23, 1895.

Gentlemen: Replying to your letter, beg leave to say that the "Monarch" Brick Machine has proven itself in every way satisfactory. I do not hesitate to say that the "Monarch" is the best soft-mud machine that I have ever come in contact with.

We are using the brick in the construction of a building, and **they are so perfectly made that we use a 3-16 inch beaded mortar joint.** This of itself speaks in much stronger terms for the machine than any words that could be used by me. We have never tested its capacity, but have with our boys made at the rate of 40,000 brick per day.

I am satisfied that the "Monarch," wherever in use, will prove as satisfactory as it has to us, and thus enable you to attain the success which your efforts so richly deserve. I mail you to-day a sample of the brick such as is being used in the erection of our building. With best wishes I am,

Yours very truly,

LYMAN D. DRAKE,

Supt. Missouri Reform School.

Birmingham, Clay County, Mo., Nov. 25, 1897.

Gentlemen: Yours of the 23rd received and noted. I will say that the "Monarch" machine is **proving to be a wonder** in this section of the country. We have just closed contract for all the brick we have in stock (three kilns) with one of the largest packing houses in the state. We are in competition with all kinds of brick machines but there is no question but what **we have the strongest common brick on the market**, and we shall take pleasure in recommending the "Monarch" at all times.

Yours very respectfully,

BIRMINGHAM BRICK CO.

Per Wm. Jackson, Pres.

P. S.—We have not paid one cent for repairs this year.

The Fact that Prominent Business Firms, such as these are,

Carthage, Mo., Nov. 16, 1896.

Gentlemen: Regarding the "Monarch" Brick Machine purchased from you last spring will say that I have a very difficult clay to work, consequently we have had some trouble as to the proper feed of the machine, but when that was adjusted it did the work very nicely.

I like the construction of the "Monarch" very much, being strong and durable in every way, with **all bearings outside and free from mud and water** from pug-mills, and the non-leaking press box are points purchasers should note well considering the purchase of a good brick machine.

Very truly yours, I. C. WHEELER,

CALIFORNIA.

Sacramento, Cal., Oct. 21st, 1895.

Gentlemen: In answer to your letter of Oct. 21, will say that the two "Monarch" Machines we purchased from you last spring have given ample satisfaction. They make "A1" brick and require much less power to run than the steam "Quaker" machine which we have been using. **They do all that your circulars claim, and more too.**

To speak of good qualities of the different parts of the machine would be a repetition of what others have written.

Yours truly,

SACRAMENTO TRANSPORTATION CO.

Per James O'Neil, Supt.

(In 1897 they purchased their third "Monarch.")

(In 1899 they purchased their fourth "Monarch.")

Stockton, Cal., December 6th, 1897.

Gentlemen: The "Monarch" I bought of you is a dandy. Give her the clay and she will give you the brick. It keeps all the men busy that can be used around the machine binder, molding the brick good and full in the corners. **We turned out 40,500 about every day** during the five months I worked. A few new knives will put her in perfect order. I may want another in the spring if business picks up as people seem to think it will. I am,

Yours truly,

Box 271.

JOHN J. MOULE.

Los Angeles, Cal., Nov. 13th, 1895.

Gentlemen: We have been using the "Monarch" Brick Machine during the past season, and are well satisfied with it. We know of none better.

Very respectfully,

C. H. WHITMAN,

Pres. Monarch Brick Co.

ILLINOIS.

Chicago, Ill., Oct. 24th, 1895.

Gentlemen: In reply to your favor will say that on account of unfavorable weather we have been able to make only a limited number of brick with your "Monarch" Machine, but we are convinced that **it will do all that you claim for it**, and can assure you that we are highly pleased with its working and its construction.

Yours respectfully,

F. LEHMANN & CO.

Lincoln, Ill., October 14th, 1896.

Gentlemen: We have used your "Monarch" Machine during the last three brickmaking seasons, and are firmly convinced that it is the best machine of its class made. We have received the bulk of the brick trade here mainly on account of the difference in shape and superiority of brick made on a "Monarch" Machine, over those made on other makes here, and commend it where desirable to have the best building brick possible to obtain by a mold machine.

We have not had a single break in the last three years and have made over 7,000,000 brick.

Yours truly,

CITIZENS COAL MINING CO.

T. F. Holmes, Supt.

INDIANA.

Chesterton, Ind., Oct. 17th, 1898.

Gentlemen: Yours inquiring as to how we like the "Monarch" Machine purchased of you is received. We beg to inform you that the machine does all that you claim for it, and we would sooner have the "Monarch" than any other soft-mud machine we have seen. It makes good square brick **from stiffer and**

tougher clay than any other machine we have seen with **little or no wear, no leaking of mud** as on other machines. It is so simple in construction that it requires no expert to operate it. As to the Sander, we will say that **it cannot be beat** where you want to make brick with a smooth face. The sand can be used dry as powder, and it will not leak, therefore it does not require a man to shovel back the sand as on so many other machines of its kind.

We believe that this outfit with good care **will last us for 50 years**, as there is **nothing to wear out except the knives.**

Wishing you success, we remain,

Yours respectfully,

P. E. ANDERSON & SONS.

Castleton, Ind., Nov. 7th, 1899.

Gentlemen: Yours inquiring as to how I like the "Monarch" Brick Machine purchased of you is received. I beg to inform you that the Machine does all that you claim for it, and I would sooner have the "Monarch" than any other soft-mud machine I have seen. **It makes good square brick from stiffer and tougher clay** than any other machine I have seen, with **little or no wear**, and with **less power than any machine I have ever used**, and with **no leaking of mud as on other machines.** It is so simple in construction, very strong, and it requires no expert to operate it.

As to the Sander, I will say that it cannot be beat where you want to make brick with a smooth face. The sand can be used dry as powder, and it will not leak; therefore, it does not require a man to shovel back the sand as on so many other machines of the kind. Wishing you success, I am,

Yours respectfully,

(Signed.) JOHN J. JOHNSON.

MICHIGAN.

Detroit, Mich., Sept. 1st, 1899.

Gentlemen: You will please find enclosed draft of \$800.00. According to agreement we were only to pay one-half of the amount after 30 days' trial, but **we are so well pleased** with the work of the machine that we increased the amount of our first payment.

Yours very truly,

GEO. H. CLIPPET & BRO. BRICK CO.

Make the Statements they do, for Publication,

Vicksburg, Mich., Dec. 10th, 1897.

Gentlemen: Yours of the 9th asking how we like "The Monarch Brick Machine" noted. We did not get started until August but succeeded in making good time from that time on. The machine makes a very nice brick and the number seems to be limited only as to handling. There may be others as good but we do not think there are any better machines made for soft-mud brick. Can see no reason why it will not be very durable; the more we use it the better it suits us. We are,

Very truly yours,

CLAPP BROS.

Saginaw, Mich., Oct. 14th, 1898.

Gentlemen: There is only one thing we can say in regard to "Monarch" Brick Machine, that it is first class in every respect. Our advice to any one wanting brick machinery is to buy a "Monarch" and be happy.

Yours truly,

SPERRY BROS.

Birmingham, Mich., Dec. 9th, 1899.

Gentlemen: I have been using the "Monarch" Brick Machine during the past season. Have had no breaks and am well satisfied with it.

Yours respectfully,

E. E. DANIELS.

MINNESOTA.

Winona, Minn., Oct. 31st, 1899.

Gentlemen: The "Monarch" Machine and Mold Sander we bought of you last spring both gave good satisfaction. The "Monarch" Machine when properly operated makes the squarest sand-molded brick we have ever seen.

Yours respectfully,

VOELKER & GROFF.

Byron, Minn., Oct. 17, 1898.

Gentlemen: Enclosed herewith find draft for \$650 in payment of balance on "Monarch" Machine.

The machine has proved very satisfactory, my only regret being that I did not purchase one earlier.

Yours truly,

J. B. KENDALL.

Northfield, Minn., Oct. 18th, 1895.

Dear Sirs: As we have been running one of your "Monarch" Brick Machines the past season, can say it is the finest machine we ever saw run. It makes such square, sharp corners and edges that **they almost equal a repress brick**. It is very handy in being low, so you can shovel the strikings back in the machine, and the top being open you can see the temper of mud all the time. We have not had the slightest delay from breakage, and we cheerfully recommend the machine and verify all you claim for it.

Respectfully yours,

HART BROS.

MASSACHUSETTS.

Taunton, Mass., Oct. 17th, 1898.

Gentlemen: The two "Monarch" machines we purchased of you last spring have fully met our expectations, and have **done all, or more, than you claimed for them**.

We take the clay directly from the bank to the machine, making from 45,000 to 48,000 brick per day of ten hours on each machine. **We could safely speed much higher if we wished to do so.**

We work the clay very stiff, getting good square brick with well defined corners. All who have seen them in operation admit that we have the right machine. The cost for repairs has not been enough to mention, and they are now in as good condition as when first put in operation. They are very light running, requiring less than 20 horse power at our present speed. Any one putting in new machinery will make no mistake by selecting the "Monarch."

Wishing you continued success, we remain,

Yours truly,

TAUNTON BRICK CO.

Hanson, Mass., Nov. 13th, 1895.

Dear Sirs: The "Monarch" Machine which I purchased of you this spring has proved satisfactory in every respect. It is a very easy running machine, having a great many improvements over other machines. I call it the best soft-mud machine on the market.

Respectfully yours,

WALLACE HOUSE.

KENTUCKY.

Wickliffe, Ky., Oct. 3rd, 1898.

Gentlemen: I am well pleased with your "Monarch" Brick Machine. It does all that it was recommended to do. I am satisfied that **it will make fifty thousand brick per day** if they could be removed from it. It is the simplest and strongest machine, and **the best for a stiff tempered brick** that I ever saw. I do not think it has any equal. Every brick is perfect.

I am glad to give you testimonial in regard to machine.

Yours,

J. B. FLOWERS.

Hopkinsville, Ky., Oct. 26th, 1895.

Gentlemen: We bought of you last spring one of your "Monarch" Brick Machines, and have been running it all the season, and consider it the best soft-mud machine on the market. Our clay is a red, tough clay, and it makes a good, square perfect brick.

Yours truly,

DALTON BROS.

Henderson, Ky., Dec. 8, 1899.

Gentlemen: It affords us pleasure to testify to the merits of the machine we purchased of you, (The "Monarch.") **It is easy to handle, works perfectly, strong in every part**, in fact, makes the manufacture of brick a pleasure. We feel that we are fortunate in our purchase, as there are so many to select from, consequently, an error in selection is so easily made.

Yours truly,

FARNSWORTH & JOHNSTON.

LOUISIANA.

Monroe, La., Oct. 16th, 1896.

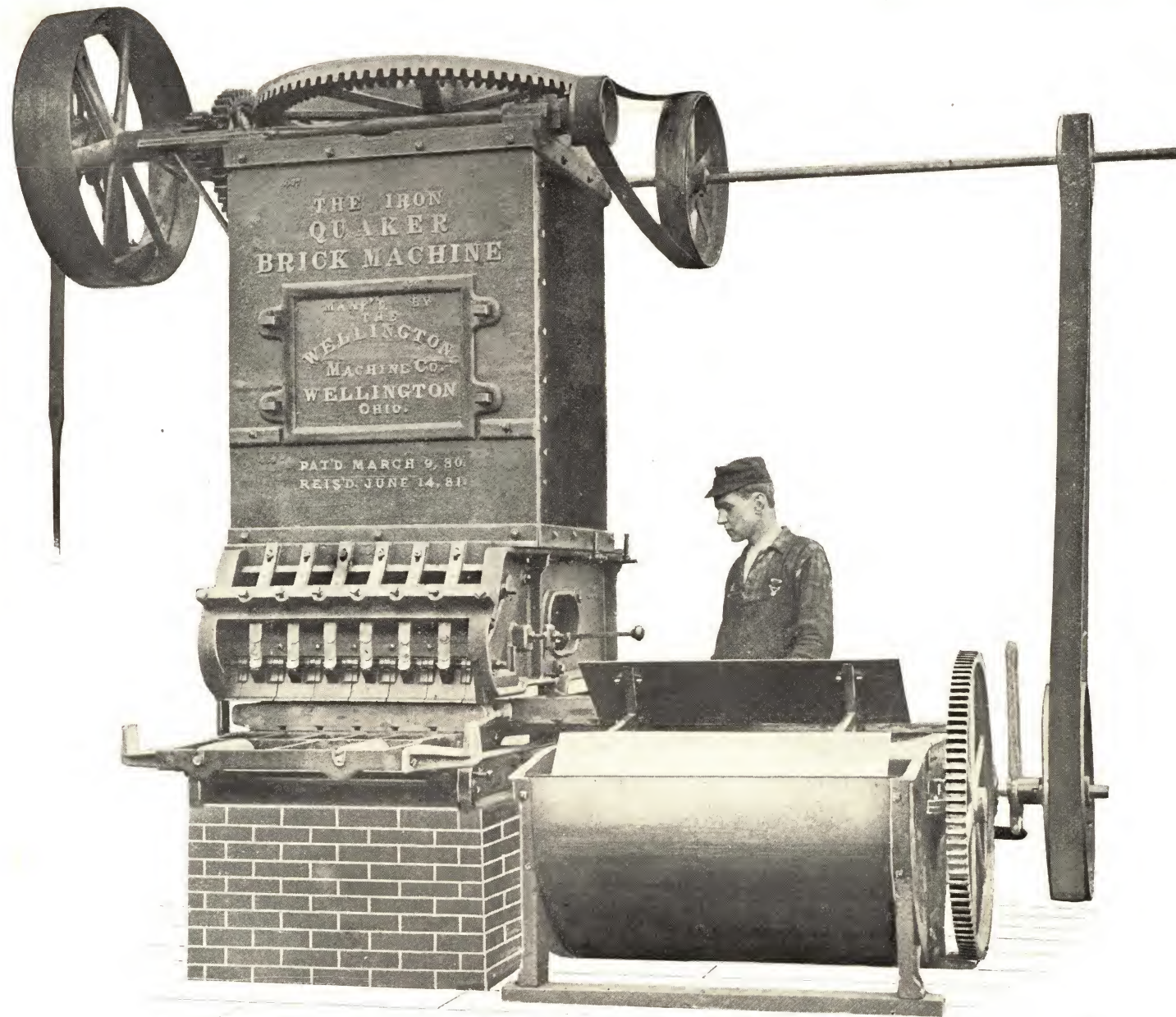
In 1893 we purchased one of your "Monarch" Brick Machines, which we have used **for four seasons** with perfect satisfaction.

Last summer we made two-and-a-half millions of brick on our machine and had **only one break**, and that was caused by careless handling. We wired you for duplicate of the broken part, and our machine was again running in two days after the breakage.

We take pleasure in recommending the "Monarch" to any one desiring a first-class machine.

Yours very truly,

MONROE BRICK COMPANY, Ltd.



The Extra Heavy Steam-Power "Iron Quaker" Brick Machine, and The "Wellington" Mold-Sanding Machine.

The Extra Heavy Steam Power "Iron Quaker" Brick Machine

WEIGHT, CAPACITY, ETC.

This machine weighs, complete, about 5,800 pounds, and makes from 20,000 brick per day up to as many as can be handled, with eight to twelve horse-power engine, and six to eight men, according to clay and convenience of handling. A friction clutch pulley 36 inches diameter 8 inch face is furnished with each machine. Figure to run it 19 revolutions to produce one mold of brick. Therefore 152 revolutions per minute will give 8 molds per minute, 190 revolutions will give 10 molds, etc.

PULLEY AND SPEED

PREPARING CLAY

The clay is put into a pit and thoroughly soaked over night, then shoveled into the machine, quite a little stiffer than for hand molding, being thoroughly tempered as it passes down by ten knives on the main upright shaft, and by them forced into the press-box, with the assistance of a heavy wiper.

In some clays these ten knives actually temper the clay too much, and one has to be taken off. Other clays may need more grinding and another knife can be put on, for which we make no extra charge, when it is needed.

The "Mud-Press" or "Plunger" has a "forward and back" movement of about 12 inches. It is located so that it forms the back of the press-box, when the Mud-press is open. The Press-box is evenly filled, as described, then the "Mud-press" moves forward horizontally, driving the clay against the inclined or beveled casting, forming the front of the press-box, by which it is directed downward through the die into the molds.

With this construction we are enabled to press the **end bricks** as much and **no more** than the center ones, so that the outside corners are not slighted, as they usually are in the down-press machines. Then, when the brick are burned they all shrink to the same size; whereas brick made on the other machines do not shrink the same for the reason given.

REGULATING PRESSURE

The amount of pressure upon the clay can be **changed instantly** while running, without stopping, from none at all to a great deal, to correspond with the consistency of the clay, by simply drawing out or pushing in the regulator rod, which can be seen in the cut, projecting from the side of the machine.

Arrangement for Letting Out Stone, Etc.—By applying the pressure horizontally we are enabled to use the trap-doors shown in front of the machine, which are held in place by strong steel springs, and so adjusted that if a stone or other obstruction presents itself in any single mold that door flies up and allows it to pass out, leaving the remaining five brick in the mold perfect.

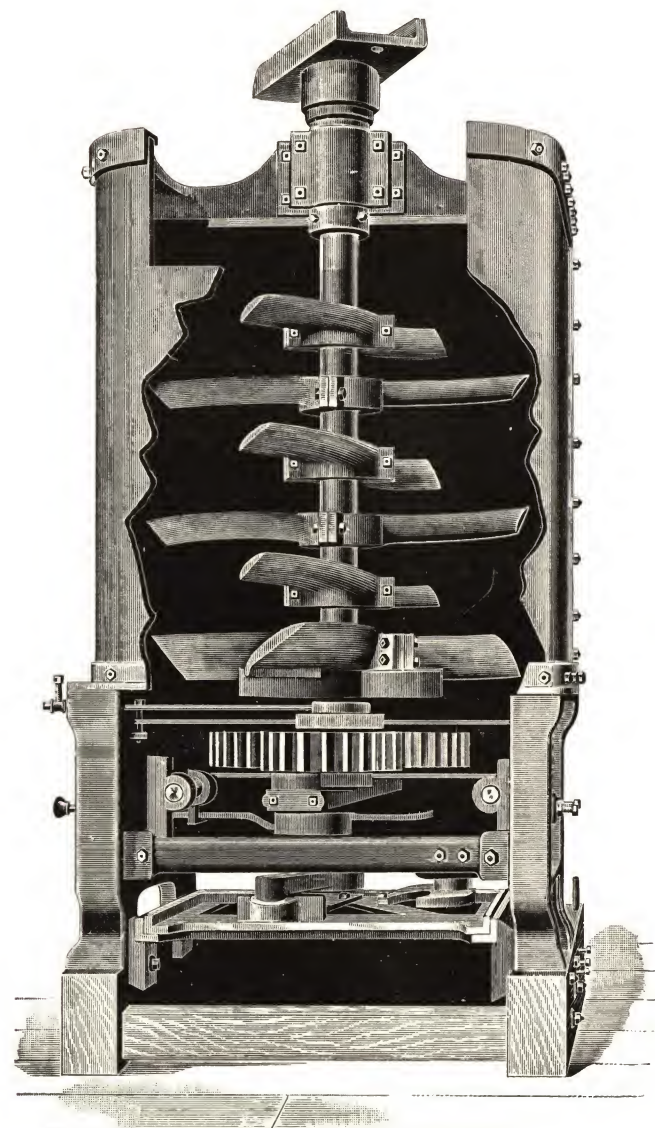
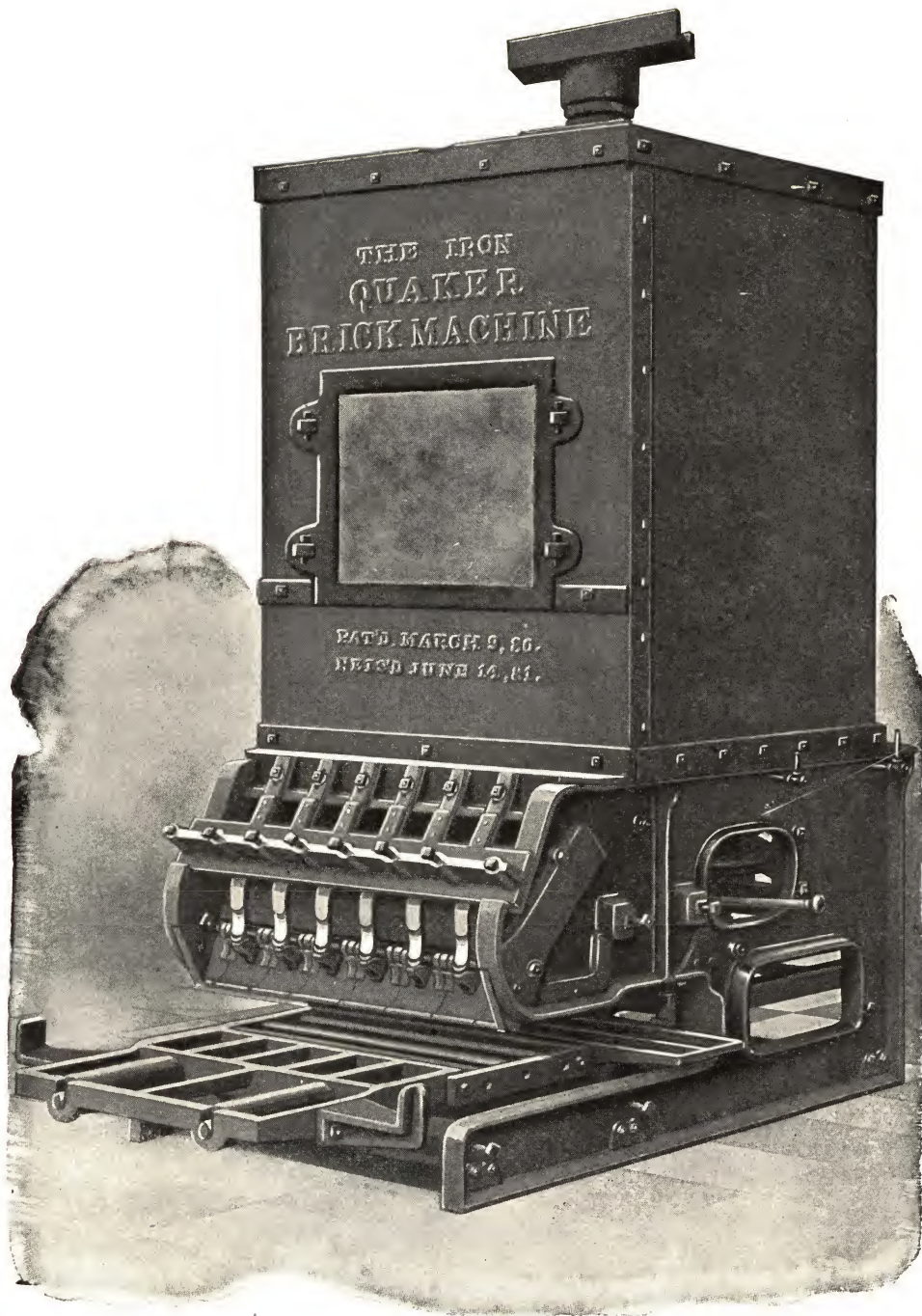
MEN REQUIRED

It requires two shovelers to feed the machine, one sander, one striker and two or three off-bearers, according to size of drying ground. This set easily turns out 20,000 per day, which is the ordinary average of these machines.

SAND

The sand used with this or any other machine making bricks in molds must be **clean, fine and sharp**, and it will be useless to attempt to use any other kind, such as loamy, dirty sand so frequently used in hand-molding. We are especially explicit in mentioning this from the fact that nine-tenths of the complaints ever made arise from the very reason that the parties attempt to sand their molds with stuff not much better than dirt.

Number of Molds Required.—When the molds have to be trucked away some distance to the drying ground, seventeen is the usual number used. If the pallet system is used, only ten molds are needed for either machine. In practice, money is well invested in a few extra molds; they cost but little, and very frequently prevent time from being lost while operating. It is well when using only ten to have two sets, so one set can always be washed and ready.



Rear View, Showing Iron Tub Broken Away.

The Horse-Power "Iron Quaker" Brick Machine



HIS Machine weighs about 4,500 lbs., and makes 15,000 to 20,000 bricks per day, with two horses and five to seven men, according to quality of clay and convenience of yard, etc. It is 6 feet high, 5½ feet long at the bottom, and 3½ feet wide.

These machines are arranged so as to be easily changed at any time to steam power by the addition of the necessary gearing.

Five molds of six bricks each are turned out to each two turns of the horses.

This machine constantly grows in favor among the average and smaller-sized yards. There are many localities where 8,000 to 10,000 per day are all that the demand warrants manufacturing. On many yards 8,000 to 10,000 per day are made in the morning, and the same hands used to take care of the brick in the afternoon. The price of this machine is within the reach of the owners of such yards, and with it a better brick can be made at less cost than by hand-molding.

SWEEP

The sweep is not included in the price, as it can be obtained at home as cheaply as we could furnish it, and therefore it would not pay to pay the freight on it from here. It is usually made so that it is 15 or 16 feet from the center of the machine to where the horses are hitched. The other end should project, and if not long enough to balance of its own weight, put a box on the other end, with weights enough to balance.

Instructions for Setting Up. We send all our customers complete printed instructions, prepared as carefully as it is possible for us to do it, for setting up and running the machine, so as to enable purchasers to put it in operation without difficulty.

OTHER POINTS

The machine is so constructed that **if the mold is incorrectly or partially entered it cannot be broken**; it will do no harm whatever. No other machine is reliable in this respect.

Should the operator at any time wish to stop delivering bricks he can draw out the regulating rod and the bricks will stop coming out, allowing the horses or steam power to run right along and do no damage, having no other effect than to temper the clay more thoroughly.

The filled mold is forced out before the pressure is released, thus keeping the clay in the mold. After the mold is out **the mold-pusher returns back with a quick motion**, allowing the sander **plenty of time** to insert the mold.

As the molds come from the machine ready for the truck they are struck off by a man with a knife which we furnish for the purpose.

Bumpers are attached to the machines, which are especially useful in a very tenacious clay that has a tendency to stick to the molds; the striker, after striking off the mold, gives it a slight bump back and forth against the iron bumpers, thus setting the mud free from the sides, which enables the brick to slip with perfect freedom.

TO THOSE STILL MOLDING BY HAND

Dollars are what you are working for, and it has been proven thousands of times that you can make better brick for less money with soft-mud machinery than by hand. **The process is the same**, only your machine does the hard work of molding for you, and does it faster, and having more power behind it, rightly applied, it presses the brick more firmly into the molds, putting more clay into the brick, fills out the corners better, and there are **no sand cracks**, the great objection to hand-molded bricks in most localities. **This point we guarantee.** If all this were not true, the machine business would have already died a natural death.

Partial List of Users of "Quaker" Machines.

(NEARLY FIVE HUNDRED)

ALABAMA

Athens—Henricks Bros. & Malone.
Bessemer—Klass Brick Works.
Lacon—G. P. Orendorff.

ARIZONA

Clifton—W. A. Pitt.
Jerome—United Verde Copper Co. (2).
Pima—H. Weech.
Stafford—Smith & Morris.
St. John's—Holgate & Nichol.
Thatcher—Merrill & Son.

ARKANSAS

Eureka Springs—John Loeffler.
Little Rock—Little Rock Brick Wks.
Marianna—E. B. Word.
Pine Bluff—Pine Bluff Brick Co.
Springdale—E. T. Candle.
Van Buren—M. W. Drewrey.
Wm. F. Morelock.

CALIFORNIA

Eureka—J. B. Dupuy.
Fortuna—Jas. Thompson & Sons.
Inglewood—Houlahan & Griffith.
Los Angeles—City Brick Co.
Eureka Brick Co. (Beach).
D. Freeman.
Ed. Simons.
R. G. Simons.
Oakland—Portin Brick Co.

CALIFORNIA—Continued.

Sacramento—Sacramento Trans. Co. (2)
San Francisco—Patent Brick Co.

COLORADO

Canon City—A. C. Jensen.
Rocky Ford—Larmore Bros.
Walsenberg—Baxter & Kearns.

CONNECTICUT

Hartford—G. L. March.
Middletown—Caleb Johnson.
Windsor—W. G. Wrisley. (2).

FLORIDA

Madison—The Madison Brick Co.

GEORGIA

Cairo—S. A. Roddenburg.
Parish—O. M. Warren.

ILLINOIS

Barry—C. H. Chilton.
Belvidere—Walter S. Van Epps.
Benton—K. McKenzie.
Bushnell—E. D. Lanterbach.
Cartersville—Monroe Brann.
Chillicothe—Thos. Goodwin.
Cuba—W. A. Smith.
Danville—Jno. Beard.
Eldorado—T. J. Proctor.
Elmwood—Elmwood Brick and Tile Co.
Golconda—A. W. Walker.

ILLINOIS—Continued.

Harrisburg—Robt. King.
Hudson—E. L. Burtis.
La Harpe—J. W. Cassingham & Co.
Lewiston—Frank Ehrenhart.
Lincoln—Lincoln Coal Co.
Mackinaw—John Judy & Son.
Macomb—C. S. Sebrece.
W. C. Burke.
P. H. Tiernan.
Marion—T. H. Goodall.
Mascoutah—Valentine Weidler.
Moline—M. O. Miles.
Monticello—W. F. Lodge.
Morrisonville—Philip Fliegler.
Mt. Carmel—John H. Kelly.
M. L. Tilton.
Mt. Olive—Weidler & Kraushaar.
Mt. Pulaski—Mt. Pulaski Brick & Tile Co.
Newton—Jos. Bergbower.
Northampton—Thos. Goodwin.
Ohio—Munson Bros.
Peoria—N. Hogan.
Princeton—J. F. Wagner.
Red Bud—Jacob Melley.
Rockford—Superior Brick Co.
Sterling—R. H. Ramsdell.
Sumner—M. W. Saxton.
Sycamore—P. H. Van Galder.
Table Grove—E. L. Hathaway.
Urbana—Sheldon Brick Co.
Vienna—Fuller & Carter.
Washington—James M. Hartley.
West Salem—Schernekan Bros.
Williamsfield—E. A. Gale.

INDIANA

Akron—A. A. Gast.
Auburn—John Groscop.
Bicknell—The Bicknell Brick and Tile Co.
Coatsville—Mastin & Harlan.
Columbia City—Erdman & Wynkoop.
David Green.
Crawfordsville—Haukins and Berry.
Decatur—Kirck & Co.
Dunkirk—R. B. Maitlen.
Eaton—R. L. Brandt.
Walter Shoults.
Elwood—J. F. Rodefer.
Fairland—Williams & Rush.
Fort Wayne—A. Ormiston.
Freelandville—Chas. Meyers. (2)
Geneva—T. E. Mann.
Goshen—A. Bemenderfer.
Hall—Jesse Bradley.
Hall's Corners—W. H. Ringwalt.
Hartford City—Joseph Pierce & Bros.
Jasper—Michael Hochgesang.
D. J. F. Miller.
Kennard—Kennard Brick Works.
LaPorte—M. R. Forney.
Leesburg—Willard & Middleton.
Linton—W. J. Hamilton.
Logansport—John Medland.
John E. Barnes.
Loogootee—Wm. Lawhead.
Mentone—M. E. Hamman.
Milford—H. G. Smith.
Mitchell—J. W. Manington.
Muncie—Jack Wills.
Thomas Pretzman.

Partial List of Users of "Quaker" Machines--Continued.

(NEARLY FIVE HUNDRED)

INDIANA--Continued.

Oakland City—Edward Read.
Odon—J. C. Mitchell.
Owensville—Kimball & Mauck.
Plano—J. F. Shumaker & Bro.
Plymouth—Geo. L. Brink.
F. F. Garn.
Portland—I. & D. F. Suman.
John Curnt.
Princeton—R. F. Warnock. & Co.
Red Key—The Red Key Brick Co.
Richmond—W. C. Thistlewaite.
South Bend—J. H. Shank.
E. L. Perkins.
Upland—A. C. Bugher.
Valparaiso—Jacob Chartiers.
Vincennes—S. Kixmiller.
Warsaw—T. S. H. Wheeler.
Washington—John F. Brown & Bro.
Joseph Kretz.
Philip Riester & Bro.
Westphalia—Chas. Meyer.
Winchester—John Martin.
Woodburn—J. W. Gehrig.
Wolcottville—F. E. Dickinson.
Yorktown—F. M. Luce.

INDIAN TERRITORY.

Muskogee—J. A. Haynes.

IOWA

Avoca—Seiffert & Weise Lumber Co.
Blanchard—M. L. Hatch & Son.
Bedford—G. S. McKinley.
Boonesboro—L. Stephens.
Cedar Rapids—J. L. Peddycord.
C. H. Stone & Co.

IOWA--Continued.

Chariton—G. P. Rontt.
Corning—A. F. Okey.
Council Bluffs—John P. Weaver.
Cumberland—L. R. Strang & Co.
Des Moines—J. D. W. Hall.
Dunlap—W. L. Kuykendall.
Eagle Grove—D. P. Morgan.
Fayette—Frank W. Rodgers.
Gravity—J. R. Headrick.
Harlan—Sorensen & Smith.
Ida Grove—A. S. Wert.
Lake Mills—E. A. West & Son.
LeMars—Knorr & Shafer.
Lisbon—H. B. Goodman.
Madrid—S. P. DeLander.
Millersburg—H. A. Cheney.
Monona—Geo. H. Jenkins.
Montezuma—Broadstone Bros.
New Hampton—E. E. Cotant.
Orange City—Orange City Brick Co.
Seymour—Seymour Coal Co.
Waukon—N. W. Peck.

KANSAS

Burlingame—Jas. Ramskill.
Chanute—S. Z. Roth.
Goodland—C. E. Swartz.
Minneapolis—P. J. Lundgren.
Oberlin—M. F. Broderick.

KENTUCKY

Bardwell—T. T. Morgan.
Beaver Dam—Jno. J. Brackin.
Carlisle—James George, Sen.
Henderson—Kleymeyer & Klute.
Morganfield—Alhorn & Waller.

KENTUCKY--Continued.

Owensboro—Seven Hills Brick Co.
Sebree—S. R. Horner.
Somerset—J. A. Fox.
Winchester—Winchester Brick Co.

LOUISIANA

Donaldsonville—Lewis Wild.
Lafayette—B. Falk.
New Iberia—Jno. Emmer.
Plaquemine—E. Desobry.
Zachary—W. D. Westbrook.

MICHIGAN

Belding—M. J. Prall.
Birmingham—B. D. Bigelow.
Hartford—S. F. Warren.
Kalamazoo—William Leonard.
Kendall—L. B. Kendall.
Lausing—Clippert & Spalding.
Lapeer—Ole Peterson.
Menominee—Fred. Maas.
Paine's—Medor Mercle.
Saginaw—James Day.
Sebewaing—E. Reinhold.
Sherwood—C. Mowry.
Stockbridge—B. F. Underhill.
South Haven—John Myers.
Williams—Morgan Deal.
P. Shields.

MINNESOTA

Alexandria—J. A. McKay & Son.
Benson—Hancock Bros.
Crookston—Erskine Brick Co.
Faribault—E. Kaul.

MINNESOTA--Continued.

Hastings—Frank Jackson.
Millville—John H. Brashier.
Morton—Morton Brick and Tile Co.
Pine Island—Loomis F. Irish.
Wainview—R. Burkhardt & Son.
Scandia—Johnston Bros.
Springfield—A. C. Ochs.
Wabasha—John Ulrich.
Waseca—Chas. Messerknecht.
Zumbrota—Zumbrota Brick Mfg. Co.

MISSISSIPPI

Columbus—B. H. Atkinson.
Starkville—J. W. Howard.
Port Gibson—Port Gibson Brick Co.
West Point—Carothers & Phillips.
Yazoo City—G. H. Quekemeyer.

MISSOURI

Bolivar—R. B. Viles & Co.
Browning—G. F. Peters.
Campbell—Moore & Walters.
Dexter—Fuller & Grant.
Joplin—Hoyt & Chickering.
La Belle—W. J. Reeder.
Liberty—Jas. F. Cockrell.
Macon—J. C. Brown.
D. B. Moore.
Marshall—Rose Bros.
Maryville—W. D. Ashford.
Mound City—Vandeventer & Son.
Neosho—Greer Bros.
Nevada—John Mims.
Pierce City—Greer Bros.
Poplar Bluff—Jesse Reynolds.

Partial List of Users of "Quaker" Machines--Continued.

(NEARLY FIVE HUNDRED)

MISSOURI--Continued.

Sikeston--N. F. Henson.
Shelbina--W. T. Miles.
Webb City--H. M. Merrill.
Wellsville--Wm. Newlee.
John Roppel.

MONTANA

Big Timber--E. A. Davis
Butte--Butte Sewer Pipe and Tile Co.
Henry Vogel.
S. J. Monroe.
Ft. Assinaboine--D. P. Wartman.
Great Falls--Sun Brick Co.
Helena--N. Kessler, (4).
Kalispel--Fred Whiteside.
Lewistown--Frank Moshner.
Livingston--Mrs. John Mortimer.
Sand Coulee--Thos. C. King, (2).

NEBRASKA

Beatrice--John Claeys.
Chester--J. L. Neville.
Fairbury--A. L. Houghtelin.
Gothenburg--Gothenburg Brick Co.
Hastings--Butzirus Bros.
Lyons--C. Forrester.
Nelson--M. S. Storer.
North Bend--W. H. Mines.
Ponca--J. P. Nelson.
Oakland--Andrew Anderson.
St. Edward--Peter Simpson.
Superior--D. Guthrie.
Wahoo--M. Schmidt.

NEW HAMPSHIRE

Keene--Barrett & Alden.

NEW YORK

Auburn--F. W. Harvey.
Allegheny--M. J. Calligan.
Fort Edward--Andrew Smith.
Haverstraw--T. G. & C. H. Peck, (4).
Johnstown--Robt. Kilmer.
Lyons--Fred Borck.
Mt. Morris--F. E. Van Dorn.
Plattsburg--Jas. McCarty.
Schenectady--S. A. Case, (2).
Syracuse--Geo. W. Pack & Son.

NORTH CAROLINA

Haw River--John A. Trollering.

NORTH DAKOTA.

Grand Forks--W. P. Alsip.
Williston--Lease & Richards.

OHIO

Akron--William Bailey, (2).
McCausland Bros. (2).
Ashley--M. Dennis.
Ashtabula--C. W. Simonds.
Archibold--J. W. Winsler.
Bellevue--A. Gerhardstein.
Canton--Geo. LeBeau.
Chillicothe--Jos. Janes.
Circleville--Jno. Heiser.
Clarksburg--J. M. Jones.
Coldwater--A. X. Walter.
Columbus--John Kulp.
Constant Isabel, (2).
John Kiner (2).
A. Schneider (2).
J. V. Laplante Bros. (Milo.)
W. E. Mulby (Linden Heights).
Isabel & Campbell.

OHIO--Continued.

Conneaut--Jos. Smith.
Continental--Konst Bros.
Coshocton--Jas. Miller.
Crestline--Frank Rock.
Creston--N. M. Wells.
Covington--J. G. Wagner.
Dalton--P. Buchanan, Jr.
Delaware--W. Hazelton.
F. M. Wirthman.
Delphos--Fred'k Minzing.
Jos. Bour.
Dayton--Sortman & Hudson.
Elmore--H. Moser.
Elyria--Wm. Wallhead.
Fremont--The Herbrand Co.
Fort Recovery--Fred'k Holl.
Galion--Joseph Motsch.
Geo. Cronenwett.
Greenfield--W. J. York.
Greenville--Saml. Ludy.
W. J. Irwin.
Hammondsville--Wallace Mfg. & Mining Co.
Holland--Robt. F. Merrill.
Jackson--W. T. Washam.
Kent--G. W. & J. H. Ferry.
LaCarne--A. E. Ballin.
Leipsic--A. Foulk.
Lima--Guthrie Bros.
Louisville--A. Chevreux & Co.
Loramie--C. Wagler.
Marion--Dix & Mason Brick Co.
Marysville--P. Burns.
Moder & Trapp.
Minster--J. H. Steineman.
Miamisburg--C. Laspe.
Montpelier--Slaybaugh & Boon.
Mt. Gilead--Jos. Hickson.

OHIO--Continued

Mt. Vernon--Fred C. Wolf.
Newark--Wm. Vogelmeier & Son.
Chris. Weippert.
New Knoxville--A. Eschmeyer, Jr.
Oak Harbor--G. P. Rafferty.
Ohio City--Amos Brubaker.
Orrville--H. D. Shannon.
Oxford--John Wray.
Plain City--John Milholland.
Ravenna--H. F. Caris.
Richwood--M. J. Scheiderer.
Ridgeville Corners--Anton Giffey.
St. Mary's--John Hawkey.
Andy Makley.
Scio--O. R. Hines.
Shiloh--Fenner & Prame.
Sidney--Sam'l Kaiser.
Stryker--J. D. Rumsey.
Sycamore--Wm. Cavanaugh.
Toledo--Shuey Brick Co.
A. E. Macomber.
Urbana--Geo. Schaffer & Sons.
Urichsville--J. J. Riffle.
Wauseon--H. H. Van Fleet.
C. B. Lyon.
Wapakoneta--Seb Weinert.
Chas. Kolter.
Wellington--E. Bigelow & Son.
Wellsville--Vulcan Clay Co.
West Mansfield--Van Cleve Bros.

OKLAHOMA

Hennessy--A. P. Kazebeer.
Stillwater--Lewis J. Jardot.

OREGON

Portland--S. E. Kern.
Krebs Bros.
Theo. Jensen.

Partial List of Users of "Quaker" Machines--Continued.

(NEARLY FIVE HUNDRED)

OREGON--Continued.

Portland--James Anderson
Willsburg--Seth D. Wills.

PENNSYLVANIA

Allentown--D. W. Mattern.
Athens--G. L. VanScoten.
Auburn--Wm. N. Fahl.
Blairsville--Isaac Wynn.
Carlisle--Jno. Spotts.
Cambridgeboro--Cambridge Brick Co.
Coudersport--Karl Zimmerman.
Derry Sta.--F. E. Cochran.
East Greenville--Irwin S. Gerhard.
Fayette City--Dinsmore Bros.
Greencastle--A. Walter & Son.
Houstonville--Michael Sheppard.
Indiana--Jno. B. Clawson.
Latrobe--W. A. Foust.
Lehigh--H. A. Graver.
Lindsey--W. T. Rogers.
Masontown--Eureka Fuel Co.
Montdale--Robt. N. Carey.
New Oxford--Jas. A. Staub & Bro.
Osgood--Hiram Cozad.
Pennsburg--V. W. Ziegler.
Phillipsburg--David Atherton.
Point Marion--Kiser & McClain.
Port Carbon--J. E. Stevens & Bro.
Quakertown--John Heuckeroth.

PENNSYLVANIA--Continued.

Reynoldsville--Geo. Roller.
Rockhill Furnace--Ripple & Moore.
Sellersville--A. L. Clymer.
Selin's Grove--J. W. Gangler.
Shippensburg--John Shugars.
Somerset--R. F. Davis.
Souderton--Levi Musselman.
Summer Hill--Wm. McClaren.
Sunbury--Lenker Bros.
Waynesburg--J. B. Ross.
White Haven--Geo. W. Koons.

SOUTH CAROLINA

Aiken--Aiken Brick Co.
Anderson--Jackson & McKinney.

TENNESSEE

Dyersburg--John M. Nichols.
Greenfield--Patterson Bros.
Martin--Jno. G. Walters.
Morristown--Van Huss & Bro.
Paris--J. T. Parkhill.
Rockwood--F. M. Underwood.
Rogersville--Frank Allison.

TEXAS

Caldwell--Longwell & Murray.
El Paso--H. S. Lyter.

TEXAS--Continued.

Houston--E. W. Cave.
Little River--Lone Star Brick Co.

UTAH

Benjamin--Hand Bros.
Draper--Jensen Bros.
Hyrum--John B. Davis.
Pleasant Grove--Sterrett Bros. & Co.
Provo City--Van Gundy & Co.

VERMONT

Fair Haven--D. A. Allen.
Wincoski--A. A. Graves.

VIRGINIA

Big Stone Gap--Crowell & Miller.
Bowling Green--R. D. Vincent.
Charlottesville--Wheeler & Dettor.
Gate City--G. B. Carr.
Lee Hall--Wright's Brick Yard.
Norfolk--M. T. Hayes.
Pope--S. R. Westbrook.
Pulaski--Bertha Mineral Co.
Shendon--H. Jordan.
Warrenton--E. M. Jolly.
Wiehle--Virginia Lumber and Mfg. Co.
Wise C. H.--I. C. Holt & Son.

WASHINGTON

Oakesdale--Jno. P. Kusler.
Spokane--N. Triplett.

WEST VIRGINIA

Fairmont--J. H. & M. N. Barnes.
Wheeling--Wheeling Brick Co.

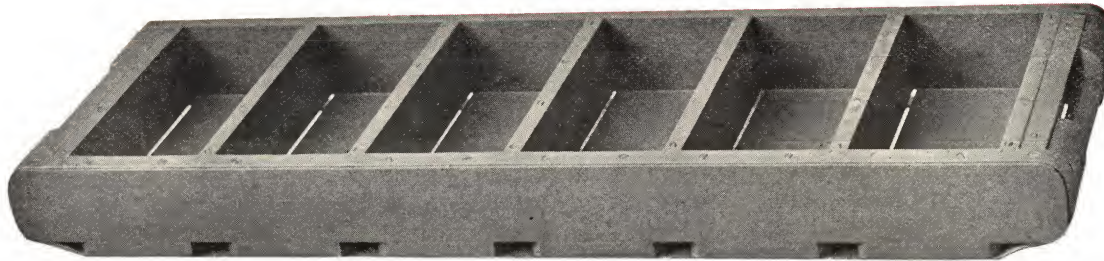
WISCONSIN

Amery--Chas. D. Gunn.
Arcadia--Zimmerman & Co.
Augusta--W. E. Johnson.
Barron--Barron Brick Mfg. Co.
Barronette--P. Larson & Co.
Baraboo--G. W. Paddock.
De Pere--John Hockers.
Ellsworth--C. I. Peterson.
Fennimore--Geo. W. Blanchard.
Fountain City--H. and F. Roettiger.
Kewaskum--Herman Buss.
Lena--N. C. Netzer.
Mouroe--Fritz Freeze.
Neillsville--Aug. Schoengarth.
Rice Lake--Targer Skjelbred.
River Falls--Geo. Th. Smith.
Sawyer--Simon & Kessler.
Sparta--P. S. Sparling.
Tomah--Chris. D. Henrichs.
Viroqua--Silas Foster.
Wonewoc--Ben. Truber.

We Shall be Pleased to be Informed of any Errors in or Additions to this List.

We want it Perfect as Possible.

“Regular” Grade Machine Molds.



Molds are made of cherry lumber throughout. The sides are 13-16 inch thick; partitions 9-16 inch; bottoms 5-8 inch. The sides are gained for each partition and two mortises made to receive the double tenon on the partition. A steel pin is put through the tenons. The Molds are bound with steel, gauge 12, which extends clear around the mold, the ends meeting on the bottom. The steel is dressed square and just even with the wood on the inside. The steel on the cross pieces and sides are locked together in such a way that neither can get out of place. This is a great addition to the strength of the Mold.

We could make and sell you molds for less money, but **we will not**, as you would regret it if we did; and you will regret it if you buy the cheap molds, **made to sell**, and not made to “stand the racket.” **Price of Regular Molds, \$2.00 each.**

“Special” Grade Machine Molds.



Many places where large quantities of brick are made in a short time, or a tough clay is used and there is trouble getting the brick out, or jarring the surplus sand off, a stronger mold than those described before is desired. For this reason we make a special mold of selected hard cherry, bind it with No. 10 steel, use larger and longer screws to hold it on, also put screws in the bottoms of partitions to prevent their being split or getting cracked below the tenons. These Molds are made just as strong and substantial as is possible, and there are none better made anywhere.

Price, in lots of 12 or more, \$2.25 each.

Hand Molds.



Price, 6 brick	-	-	-	-	\$2.50
“ 4 brick	-	-	-	-	\$2.00
“ 3 brick	-	-	-	-	\$1.50
“ 2 brick	-	-	-	-	\$1.25

READ CAREFULLY BEFORE ORDERING MOLDS.

We keep the following sizes of “Regular” Molds in stock, these being the most common sizes in use:

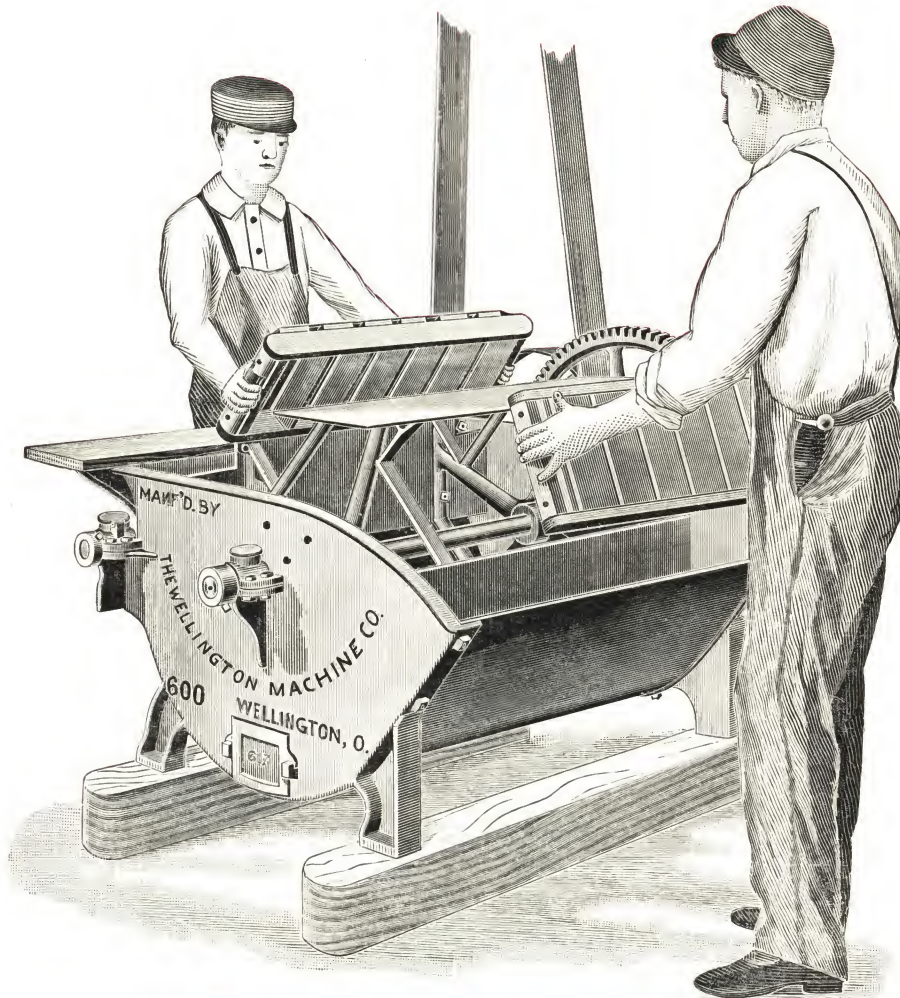
8½ inches long,	4½ inches wide,	2½ inches deep.
8¾ inches long,	4¾ inches wide,	2½ inches deep.
9 inches long,	4¾ inches wide,	2½ inches deep.
9 inches long,	4½ inches wide,	2½ inches deep.

The second of the above sizes is the “standard” size. All six brick in a mold. We can, however, furnish any size required upon short notice. In ordering, please state definitely, so that no mistake will be made, the **exact length, thickness and width** you want your bricks **green**.

PARTITIONS are made 9-16 inch unless otherwise ordered. **STEEL LINING.**—For stony clays, which cut the wood of the molds, you should have them “steel-lined.” A strip of steel ¾” of an inch wide is imbedded in the end of each mold, at the place that stones cut the molds, just under the steel strip on the top of the mold. Cost, 25c per mold extra. **KIND OF WOOD.**—Cherry is usually used. Hardly any other used now. Still in some places walnut, beech, locust or pine is used for all or part of the molds. Can furnish any of them. **PANELS IN BOTTOMS.**—25c per mold extra. **CRIMPED BOTTOM IRONS,** 15c extra. **VENTS** placed in center of brick when desired.

When ordering to match molds already in use, give total outside dimensions over all of the old mold, in addition to inside measurements and thickness of partitions.

The "Wellington" Mold-Sanding Machine.



The Simplest and Most Reliable of All.

This Machine is intended to be used **ONLY** when the brick are dumped onto pallets—at the machine.

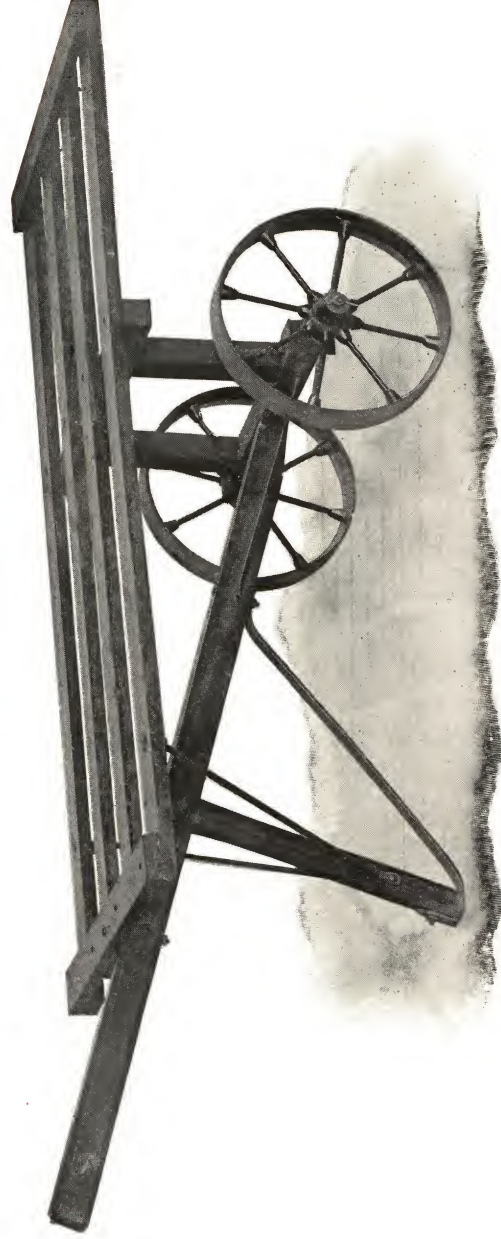
This machine saves money the quickest of anything on a brick yard. A good man to sand molds gets at least \$1.75 per day. A boy can do the work at the sander, costing 75 cents per day or less, saving \$1.00 at the least. Thus the machine pays six per cent. per week on the investment.

It is now generally accepted that a mold-sanding machine should be used in connection with every steam-power brick machine making brick in molds; that argument is unnecessary. They replace a high-priced man with a boy. They save sand. They do the work much evenner and better. The mold is dropped into the machine by the "dumper," (represented in the cut as standing in front of the machine,) after dumping the mold of brick onto the pallet. The plates extend the full length of the machine and as they revolve the front edges, passing close to the steel shell, scoop up all the sand in the machine, which passes over the plate into the mold. As the mold comes up, the sand drops out. The boy, (shown in cut at back of machine,) as he lifts the mold off, raps it slightly on the casting it rests on, jarring the superfluous sand back into the machine; then lays it on plate and slides it into the machine at the proper time.

PULLEY—The clutch pulley (enabling quick starting and stopping) is 24 inches in diameter, 4-inch face; and one and one-half revolutions of this pulley sands one mold.

NOTICE—All Iron and Steel. No chains or belts. Positive in its action. No light, complicated or unreliable parts. Can run machine at any speed. Takes any size of mold without adjustment.

No. 1 Off-Bearing Truck.



Price, \$5.50 each.

No. 2 Off-Bearing Truck.



Price, \$8.00 each.

No. 3 Off-Bearing Truck.



Price \$8.00 each.

Off-Bearing Trucks.

Ball-bearings furnished with any of the styles for \$1.00 per Truck Extra.

Any of these three styles can be used either to off-bear the molds direct to the dumping floor, or to off-bear the pallets on which the brick have been dumped.

The No. 1 Truck is usually used on small "open" yards and rarely when pallets are used. Spring trucks are much the best.

The No. 2 Truck can be easily handled by boys, and is the style that is most used.

The No. 3 Truck takes a man to handle them, as boys are apt to overturn them. It has the advantage of needing only one plank to wheel it on, where plank are used.

Order Your Trucks With Ball-Bearings.

Wheels and Axles for Moving Machines.

Most horse-power machines are moved from pit to pit on a track.

Directions for building track are given in our printed Book of Instructions.

We furnish the cross-timbers, wheels, axles and journals for \$10.00 per set.

Double-Deck Pallet Truck.

(UPPER DECK RAISED.)



Double-Deck Pallet Truck.

Price, \$9.00 each, with either one or two wheels.

These trucks carry Ten Pallets. No pallet yard should use anything else. This shows of itself to be the handiest of any double-deck truck made.

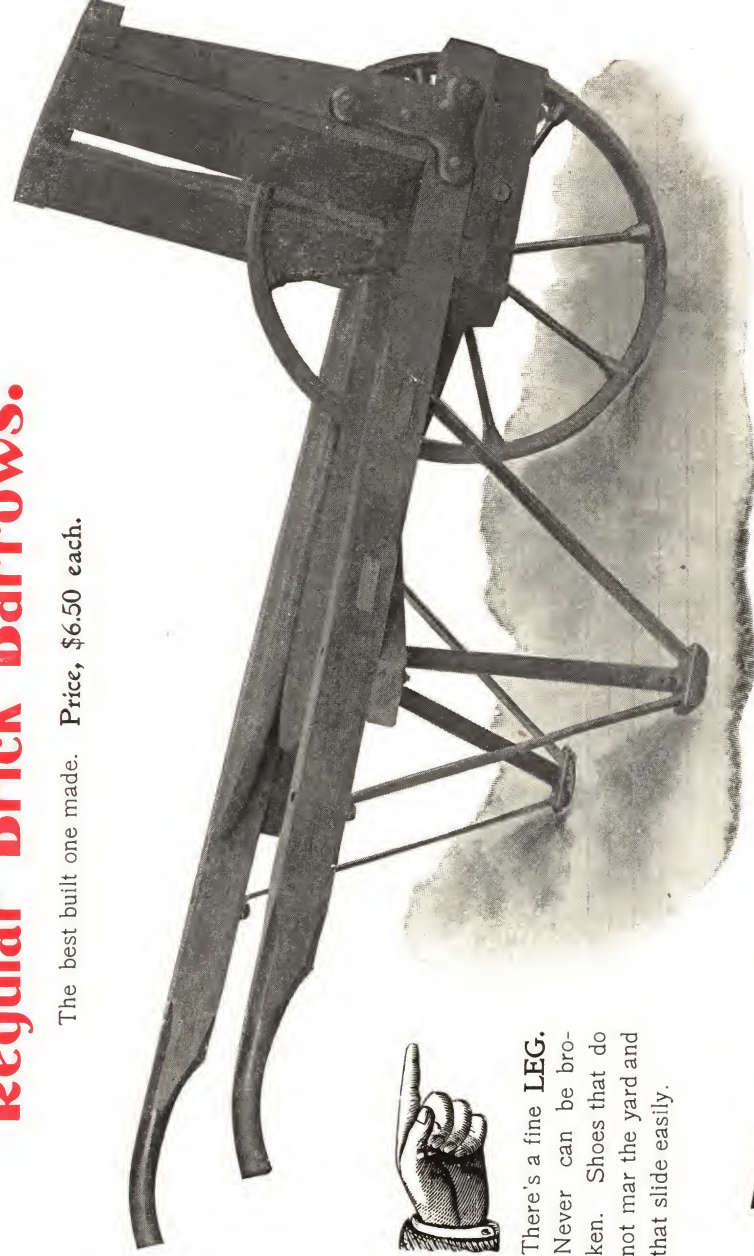


(UPPER DECK LOWERED.)

Ball-bearings make these much easier to handle. Price, \$1.00 per Truck extra.

Regular Brick Barrows.

The best built one made. Price, \$6.50 each.



There's a fine LEG.
Never can be broken.
Shoes that do not mar the yard and that slide easily.

Tipped Over

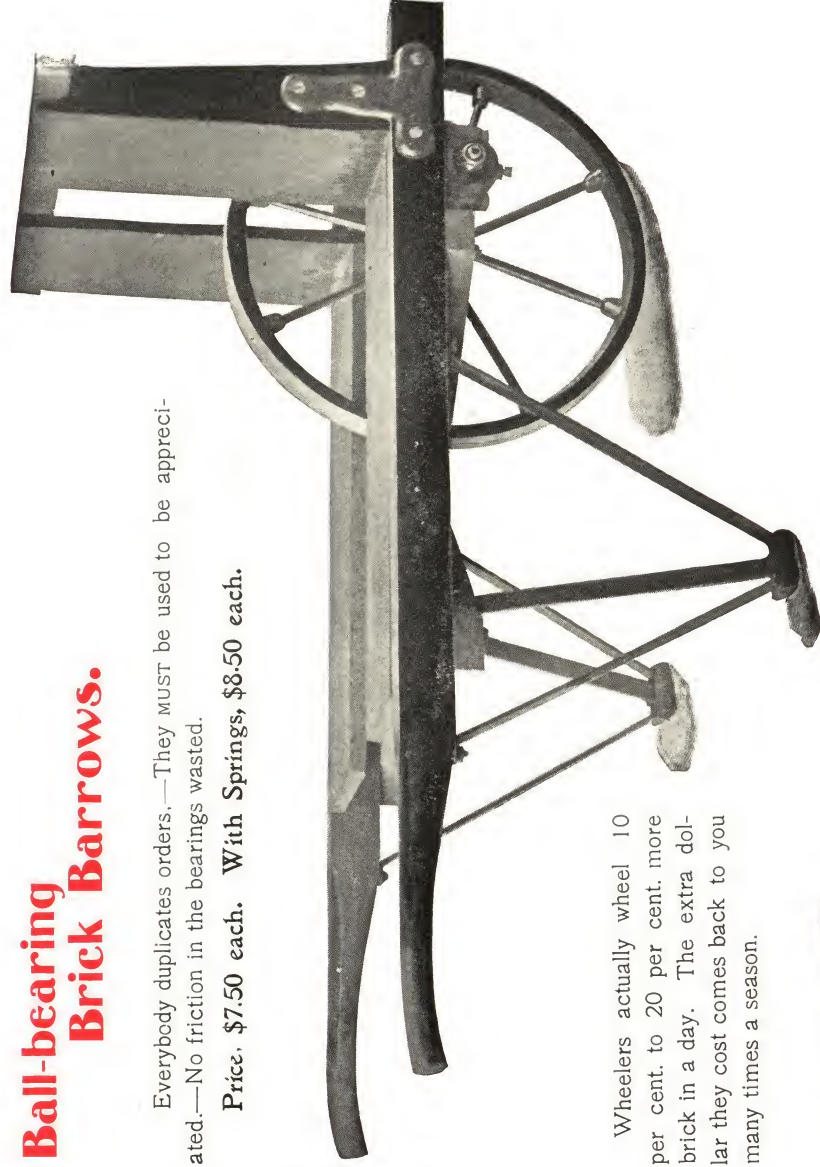
To show the strong construction and bracing of frame.



Ball-bearing Brick Barrows.

Everybody duplicates orders.—They must be used to be appreciated.—No friction in the bearings wasted.

Price. \$7.50 each. With Springs, \$8.50 each.



Wheelers actually wheel 10 per cent. to 20 per cent. more brick in a day. The extra dollar they cost comes back to you many times a season.

Spring Brick-Barrows.

Price, \$7.50 each.

With Ball-Bearings, \$8.50 each.



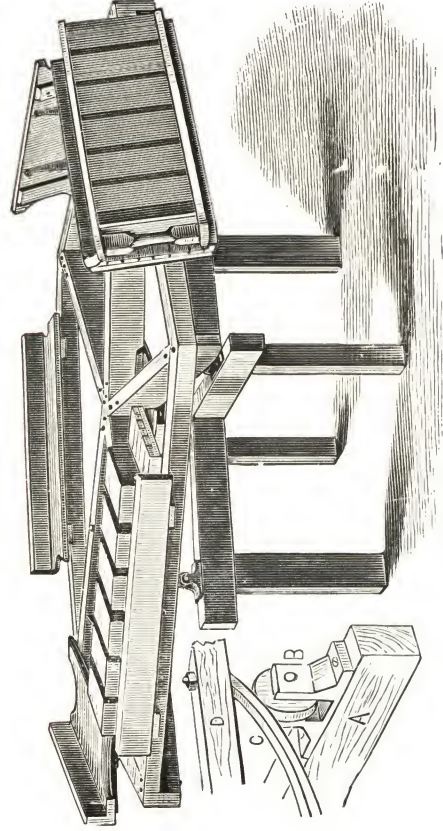
Sand or Ashes Barrow.



40

[Plate stamped from solid plate of steel. PRICE, \$6.00 EACH.

Revolving Dump Table.

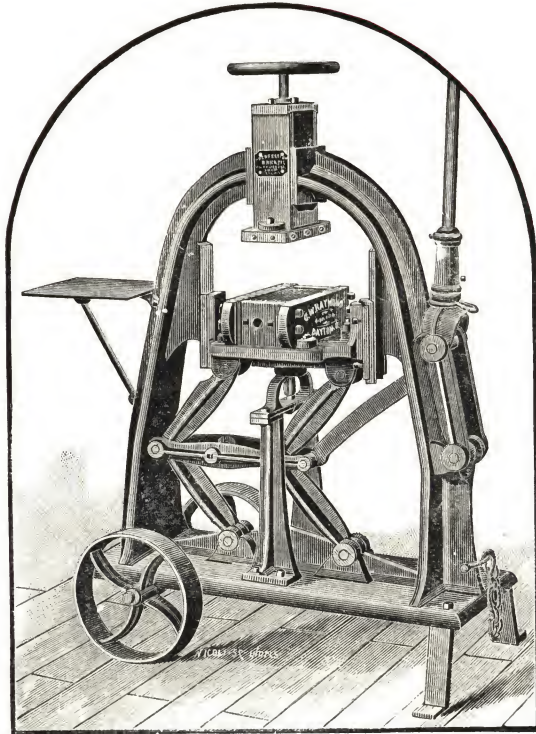


PRICE, \$16.00.

We also make one having four tables instead of five. PRICE, \$14.

Used for dumping brick onto pallets. There are five dump tables, and they revolve at a light touch, there being an iron circular track, running on four iron rollers. The small sketch in the corner shows the iron track and one roller, as these do not show well in the larger cut. It is set so that it is convenient to the dumper, who dumps his molds of brick, and a boy puts on the pallet and turns the table, so that it is ready for the next mold. The loaded pallets come around toward the yard, where they are taken away. It is well made and well liked by all who use it.

The "Perfection" Re-presses.



The great superiority of these Re-presses has brought them to the front rank among their class of machinery.

It presses from 4,000 to 6,000 bricks per day. It makes a fine face front brick, with edges and corners clearly defined. It makes square brick of equal thickness at top and bottom. It presses the brick alike from both sides, hence they are uniform in density. It has but one lever, which presses the brick, relieves it from the die and serves as a handle for propelling the press. In fact, does the work of four levers on most other presses. It is entirely open; its works are simple and easy of access. It occupies about one-half the space required for other presses. Its die plates are lined with cast steel. Its movable and wearing parts are accurately planed, turned and fitted, make a smooth and easy running Press, and one upon which an uneven brick cannot be made. Its pressure is derived from a combination of two of the most powerful mechanical agents known. A boy ten years old can exert an estimated pressure of thirty tons.

This Cut Shows the No. 1 Re-press.

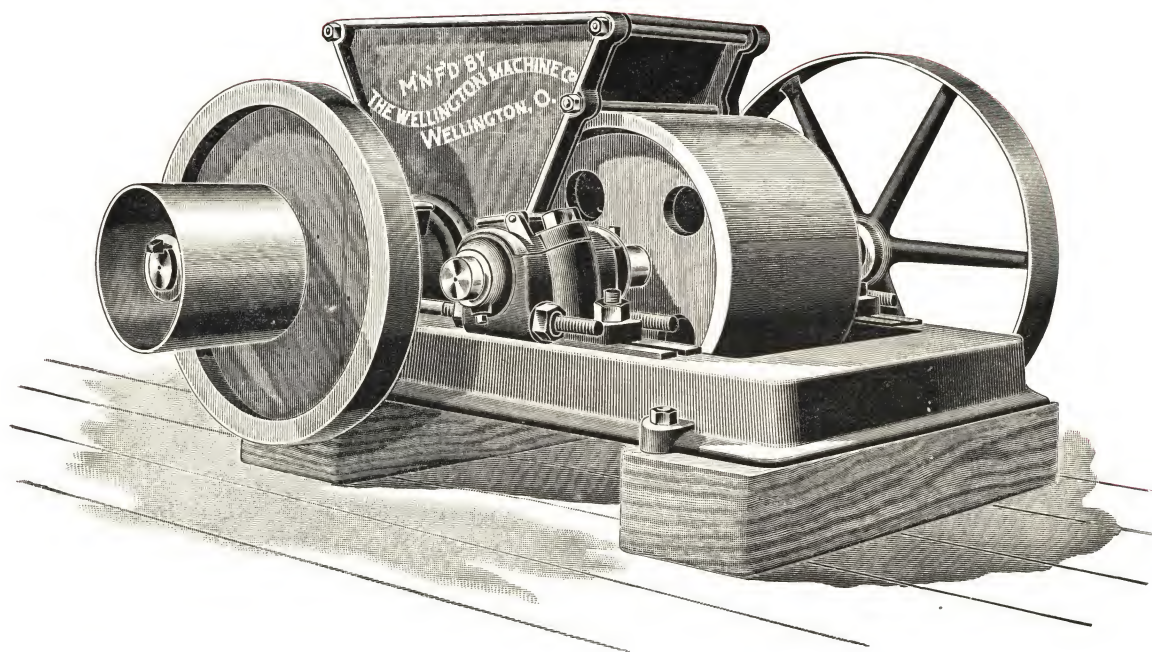
It is used principally for Red Brick, where no ornamental work is desired. It will work a die 6 x 9 inches and any size smaller. Weight, 700 pounds. **Price, \$135.00.**

The No. 2 is larger, heavier and more powerful. It is the best general machine, as it is adapted to press red brick and all ornamental shapes, fire brick, paving blocks, roofing and floor tiles, etc., etc. This should be used for fire brick, and all the regular

shapes, splits, wedges, soaps, circles, etc., etc., can be made with one die, with change of plungers only or the use of "liners." It will work designs up to 8 x 10 inches. Weight, 850 pounds. **Price, \$150.00.**

The No. 3 is still larger, and will work designs up to 14 x 18 inches. Weight 1,500 pounds. **Price, \$225.00.**

The Heavy No. 1 Clay Disintegrators.



When Disintegrators first came into use, they were recommended only for clays that were very tough, hard or stony. Time has demonstrated, however, that their use pays immensely in connection with every steam power machine. All stones or other obstructions are pulverized, or else, when they are too large or too hard to be crushed, the blows from the rapidly revolving cutting bars bounce them out of the hopper.

The feed roll, which is the larger one, revolves slowly. The small cutting roll carries six tempered steel cutting bars, which project slightly from the surface of the roll, and extend clear across the face. This roll is run from 700 to 800 revolutions per minute, so that there are 4,200 to 4,800 cuts per minute by the cutting bars. Each cut

carries through a shaving of the material, thoroughly "disintegrating," or pulverizing it (somewhat resembling slack coal, as regards size of particles) delivering it in perfect condition for the quick action of water, resulting in an even and perfectly tempered material, without which the best quality of brick cannot be produced.

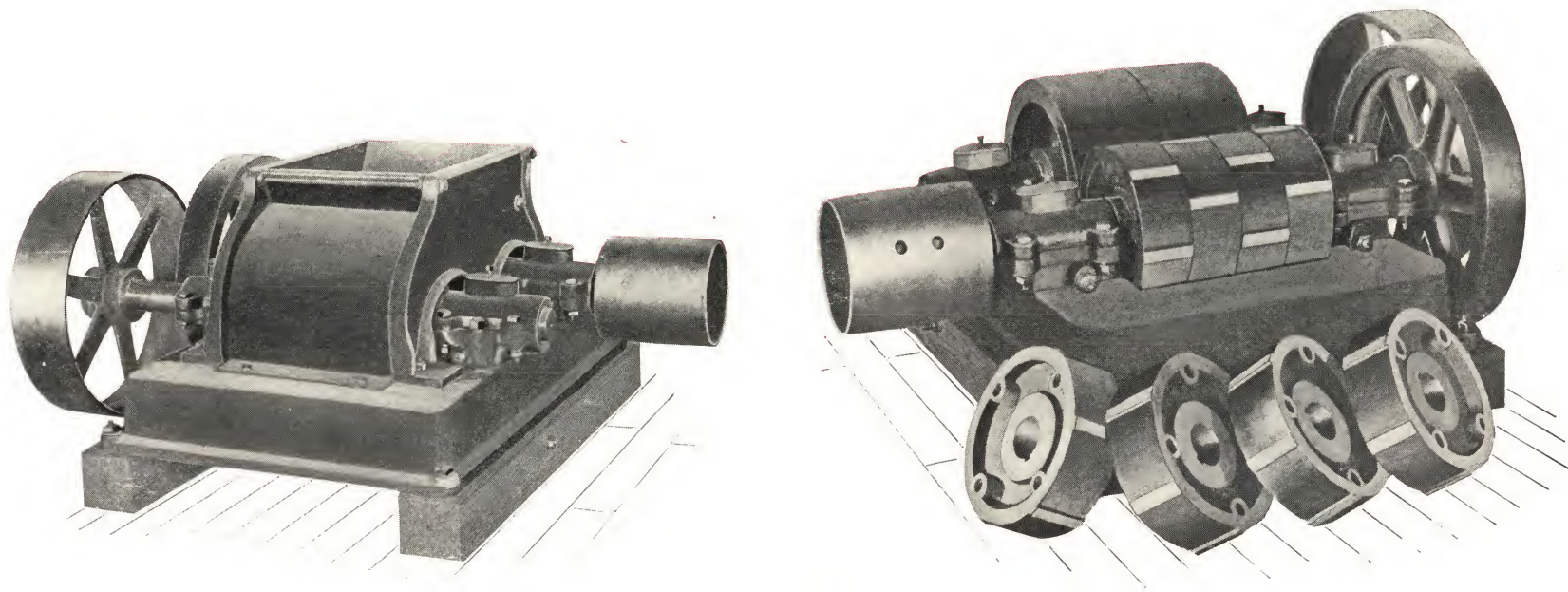
Read this. This particular disintegrator we believe to be much the best one that is built, as we intend it for large capacity, and to stand up to severe work for years. **Both rolls are chilled. The journals are 10 inches in length.** On each side are **two very heavy** ($1\frac{1}{2}$ in.) adjusting rods. The small roll has a heavy balance wheel. Note its massive construction.

Capacity, 25,000 to 45,000 per day according to speed at which it is run.

Weight, 3,000 pounds.

There are very few clays but which ought to be disintegrated, and no better built disintegrator than this.

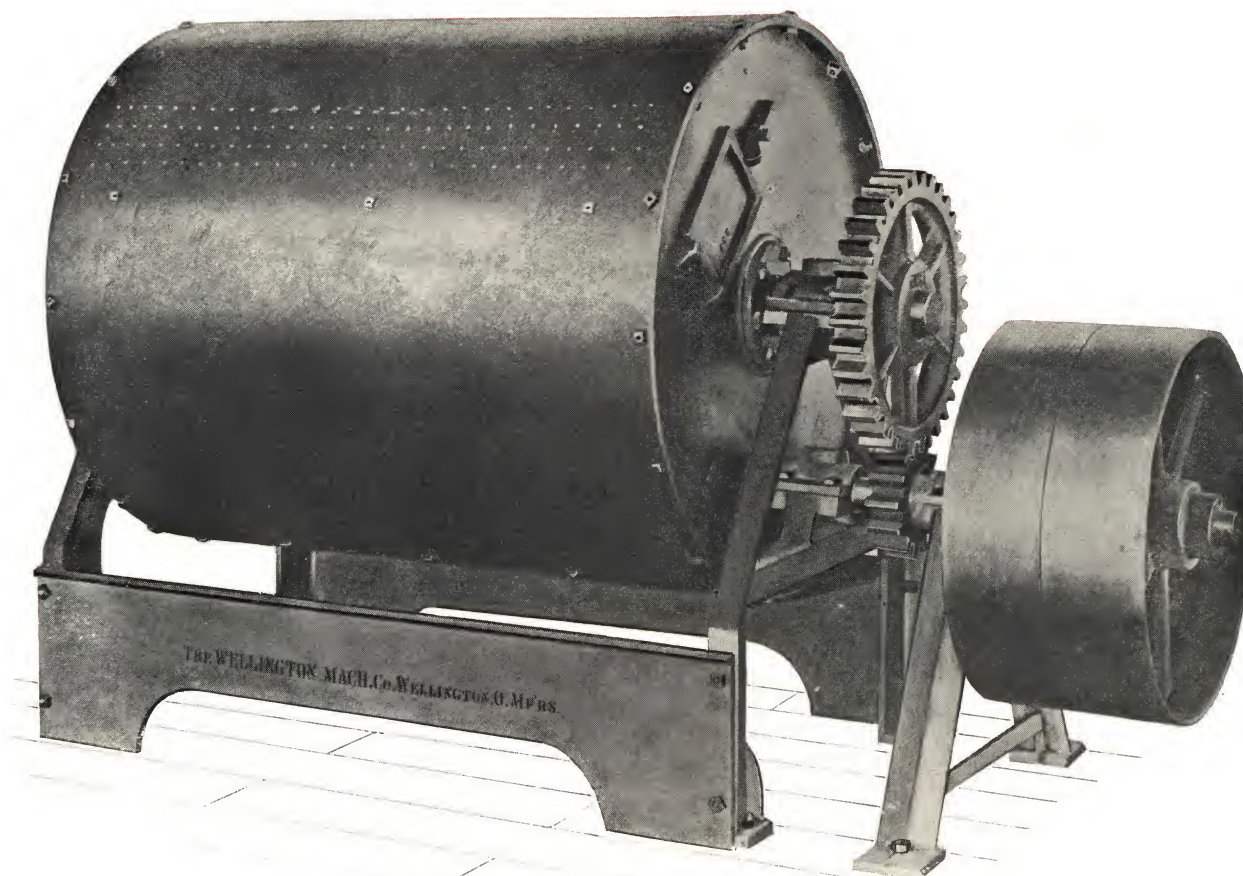
The No. 2 Clay Disintegrator.



This disintegrator is designed for smaller yards. The large roll is made in two sections of hard chilled car-wheel iron. The small roll of four sections of the same material. It does exactly the same *quality* of work as the Heavy Disintegrator. When the edge of the cutting lugs are worn, the sections can be turned around, presenting the other edge.

Capacity, 15,000 to 25,000 per day. Weight, 2,000 pounds.

Sand Grinder.

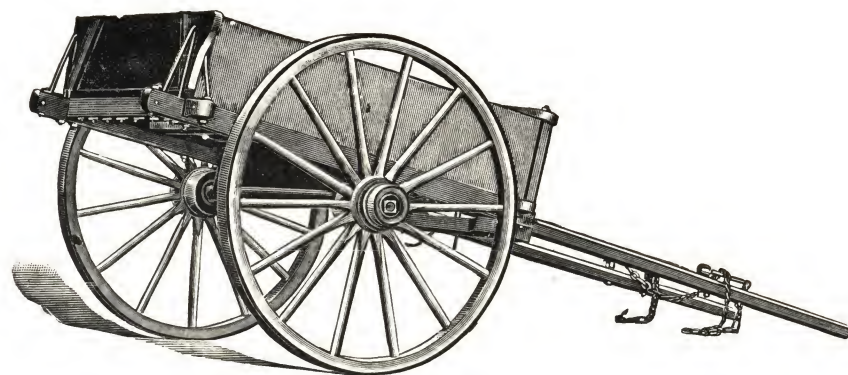


Soft bricks or bats are put into this machine, together with a few heavy pieces of iron, and the "tumbling" grinds them to a coarse dust, which is delivered below the machine.

At many places molding sand does not give the desired color. A perfect red color is obtained by mixing 20 per cent. to 50 per cent. of ground brick bats. Further, using this machine, some make ALL their own molding-sand, grinding up their bats and unsaleable soft brick so their molding sand costs them practically nothing.

WEIGHT, 600 pounds. Pulleys, tight and loose, 24 in. x 6 in. Speed 75.

CAPACITY, ordinary, one to two bushels per hour. When so ordered we arrange the grinder to double this amount.



Heavy Dump Carts.

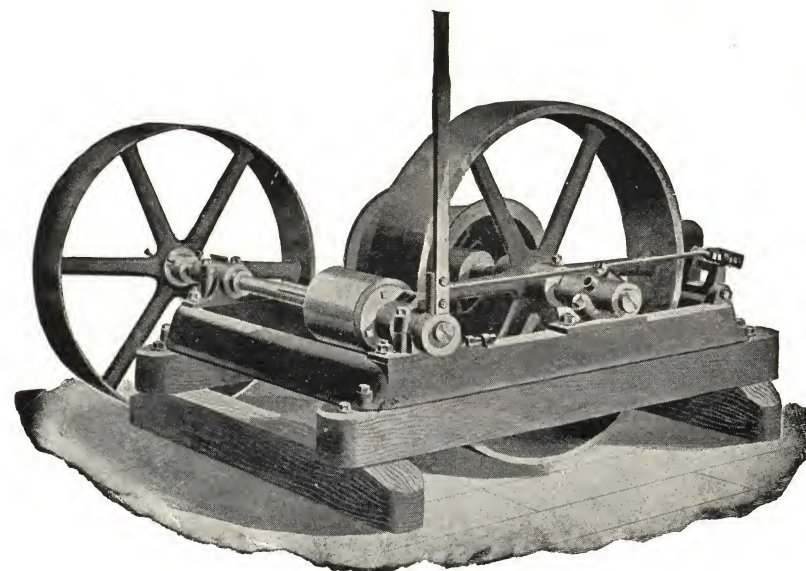
Light or Cheap Carts do not pay for brick-yard use. These are heavy, solid and substantial, and the lowest in price such a one can be sold for. They are made entirely of hard wood, and are strongly braced and bolted.

Capacity: 24 Cubic Feet. Weight, 800 Pounds.

Price, \$40.00.

Winding Drums, Etc.

Weight, 1,600 lbs. Pulley, 36 in. x 8 in. Speed, 150.



STEEL WIRE CABLE

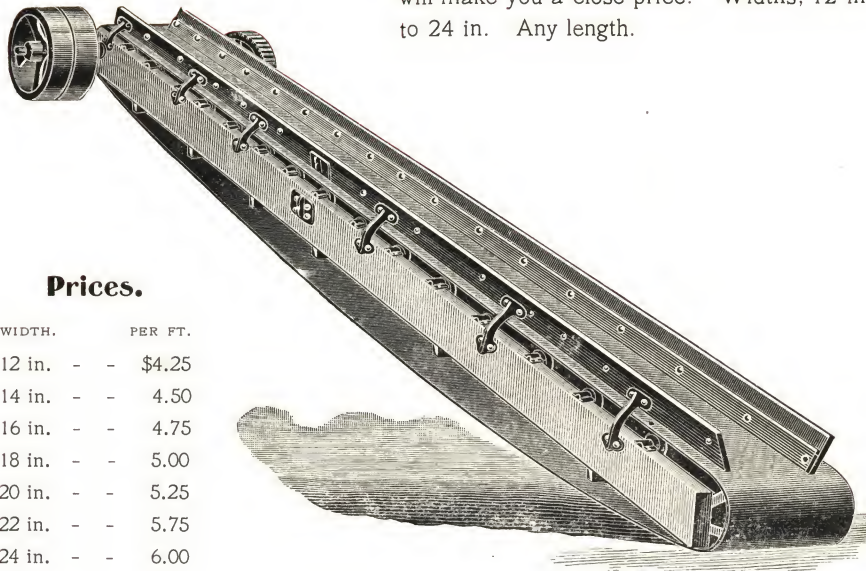
Steel "T" Rails.

For tracks to move Machines on, or tracks for hauling clay, etc., etc.

SEND FOR PRICES.

Clay Elevators.

State length and width desired and we will make you a close price. Widths, 12 in. to 24 in. Any length.



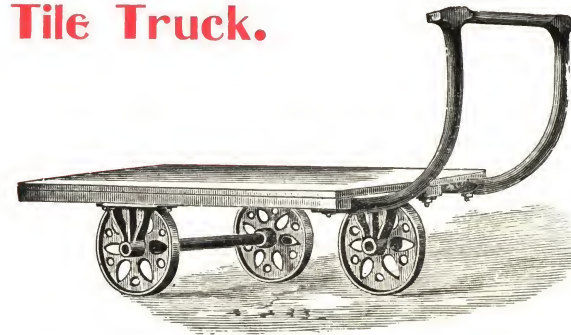
Prices.

WIDTH.	PER FT.
12 in. - -	\$4.25
14 in. - -	4.50
16 in. - -	4.75
18 in. - -	5.00
20 in. - -	5.25
22 in. - -	5.75
24 in. - -	6.00

Many kinds of Elevators have been devised for elevating clay. When the material is damp and sticky, most kinds are a failure. The style above shown has proven the best of all.

There are two very important points to consider. First, the belt. At the best it is wearing work for the belt, and money is thrown away buying a cheap belt. We guarantee to furnish the Best High Grade Rubber Belt to be found in the market, and the most expensive on account of quality. Even a good medium grade belt will not stand the test of time. Second, make the angle of elevation as slight as possible; not over 30° at the most, and as little as 20° if possible.

Tile Truck.



We first made the above to order for a tile manufacturer, and every tile manufacturer who has seen them likes them the best of anything they have ever seen, so we decided to represent them in our circular.

They carry 120 2½-inch tile; 84 3-inch; 50 4-inch; 40 5-inch; 32 6-inch, 27 7-inch; 15 8-inch; 10 10-inch, and 8 12-inch.

The front wheel turns on an upright trunnion, which does not show in the cut. Price, \$11.50.

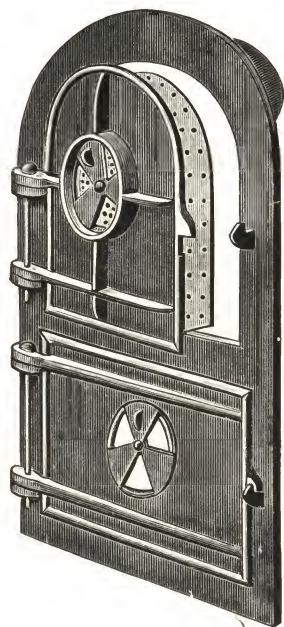
With two wheels on trunnions at front of truck, \$13.00.

Strike Knife.



Sharpened on both edges. Made of Saw Steel.

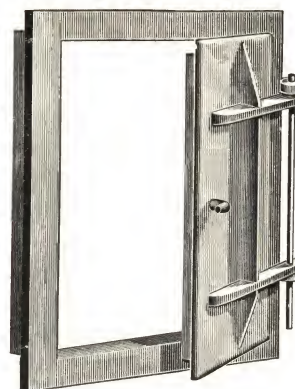
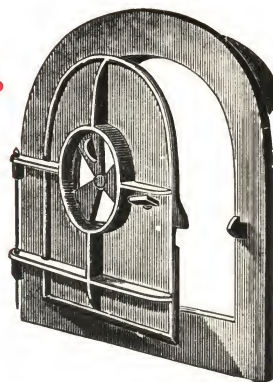
Price, \$1.75 each.



Furnace Fronts.

With liner on upper door.

Price,
\$4.50 each.



Kiln Doors and Frames.

Circle Top,
\$2.00 each.

Square Top,
\$1.75 each.

Kiln "Shutters"

Price,
75c. each.

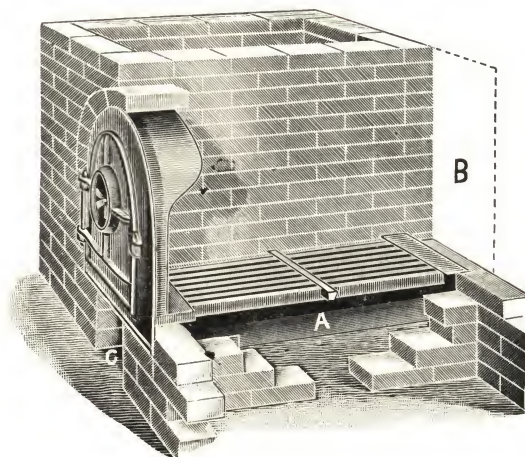
With bearing plates,
\$1.00 each.



Kiln Grates.

The cut at the right hand shows regular Boiler Grates, which are mostly used.

Sections are 3 inches wide.
Any length furnished.

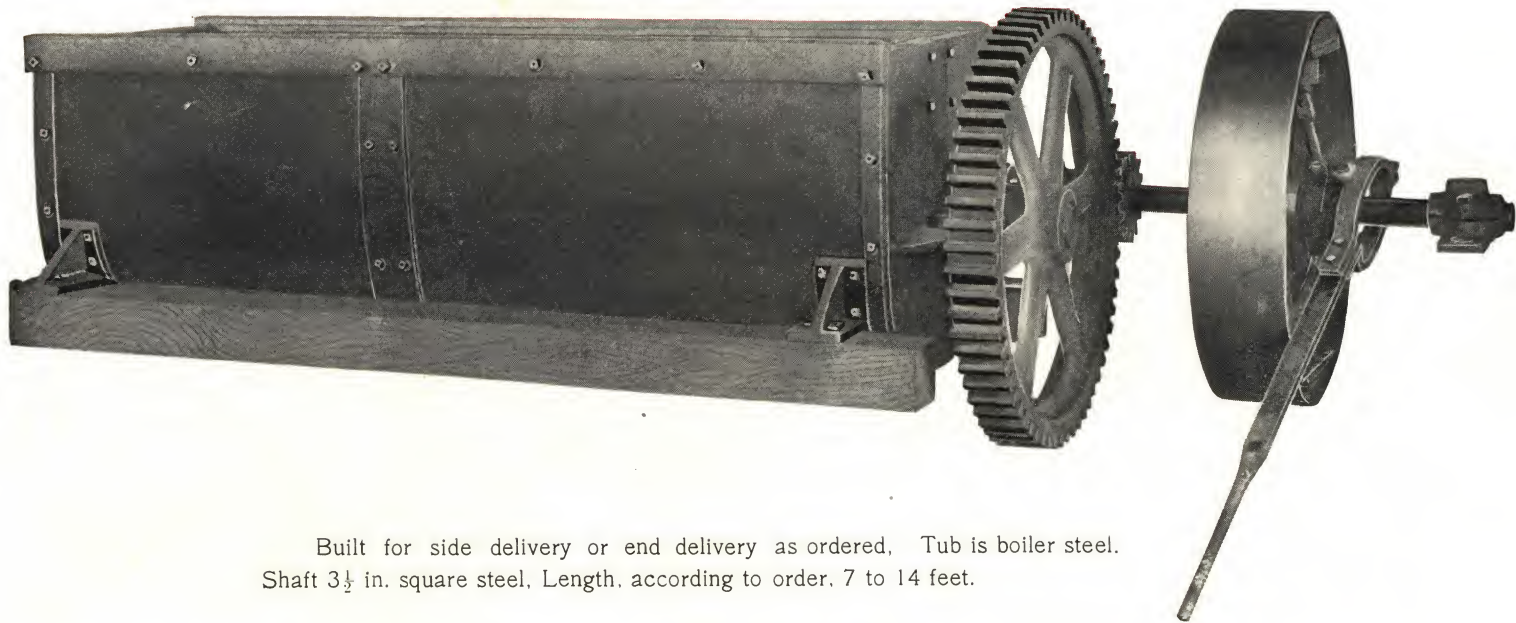


The Grate "A" in cut at the left hand is used in many places. They are 34 x 12 inches. Weight, 70 pounds. "B" represents the opening into the kiln, "C" the ash-pit opening.

Low prices are made on Grates according to market price of iron and quantity ordered.



Horizontal Pug Mills.



Built for side delivery or end delivery as ordered. Tub is boiler steel.
Shaft $3\frac{1}{2}$ in. square steel. Length. according to order. 7 to 14 feet.

Capacity 15,000 to 50,000 per day. Friction clutch pulley, 36x8 in. Speed 75 to 150 according to capacity desired.

Other Supplies.

We also make or handle, Engines, Boilers, Shafting, Wood and Iron Pulleys, Journals, Couplings, Hangers, Sprockets and Chain, Leather and Rubber Belting, Automatic Dump Cars, Tunnel Dryer Cars, Transfer Cars, Turntables, Special Kiln and other Castings, etc.

Get Our Prices on any Such Goods Before Ordering Elsewhere.



